

(122MKIII)

TASCAM

TEAC Professional Division

SERVICE MANUAL

122MKIII/112RMKII/112MKII

Stereo Cassette Deck

NOTES

As regards the resistors and capacitors, refer to the circuit diagrams and the PCB ass'y drawings contained in this manual.

- * PC boards shown viewed from parts side.
- * Parts marked with * require longer deliver time.
- * Δ Parts marked with this sign are safety critical components. They must always be replaced with identical components - refer to the TEAC Parts List and ensure exact replacement.
- * Parts not shown in the parts lists, or parts, though listed, having no parts numbers, are not general "ready-to-supply" parts.

注意

標準抵抗、コンデンサーは省略してあります。回路図および基板図を参照してください。

1. プリント基板図は部品面が示されています。
2. *印の部品は納期が若干かかります。あらかじめご了承ください。
3. Δ 印は安全規格重要部品です。交換するときは必ずティアック指定の部品を使用してください。
4. リストされていない部品は原則としてサービス供給部品として取扱っていません。

INSTRUCTIONS FOR SERVICE PERSONNEL

BEFORE RETURNING APPLIANCE TO THE CUSTOMER, MAKE LEAKAGE-CURRENT OR RESISTANCE MEASUREMENTS TO DETERMINE THAT EXPOSED PARTS ARE ACCEPTABLY INSULATED FROM THE SUPPLY CIRCUIT.

1. SPECIFICATIONS**仕様**

Tape : Compact cassette C-30 to C-90
(Normal/CrO₂/Metal)

Track Format : 4-track, 2-channel

Head Configuration

- 122MK III : 4-track, 2-channel
Record (x1) / repro (x1) combination
head (amorphous)
Half track
Erase head (x1) (ferrite)
- 112RMK II : 4-track, 2-channel
Record (x1) / repro (x1) combination
rotary head (permalloy)
Half track
Erase head (x1) (ferrite)
- 112MK II : 4-track, 2-channel
Record/repro head (x1) (permalloy)
Half track
Erase head (x1) (ferrite)

Motor

- 122MK III : FG servo direct-drive capstan motor x1
DC servo reel motor x1
DC ancillary motor x1
- 112RMK II/112MK II : DC servo capstan motor x1
DC reel motor x1
DC ancillary motor x1

Tape Speed : 4.8 cm/sec. (1-7/8")

Pitch Control : +/-12 % (approx.)

Line Input

- Rear RCA jack/front 1/4" jack
- Nominal Input Level : -10 dBV (0.3 V)
Minimum Input Level : -18 dBV (126 mV)
Input Impedance : 20k ohms, unbalanced
- XLR-type jack (standard on 122MK III ; optional on 112RMK II/112MK II - LA-112 required)
- Nominal Input Level : +4 dBm (1.23 V)
Input Impedance : 10k ohms, balanced

Line Output

- RCA jack (rear)
- Nominal Output Level : -10 dBV (0.3 V)
Maximum Output Level : -2 dBV (0.8 V)
Output Impedance : 100 ohms
Load Impedance : 25k ohms or more
- XLR-type jack (standard on 122MK III ; optional on 112RMK II/112MK II - LA-112 required)
- Nominal Output Level : +4 dBm (1.23 V)
Minimum Load Impedance : 600 ohms

Headphone Output : 100 mW (8-ohm load)

Bias/Erase Frequency :

- 122MK III/112RMK II : 150 kHz
112MK II : 100 kHz

Equalization : 3180 μ s + 70 μ s (CrO₂/Metal)
3180 μ s + 120 μ s (Normal)

Reference Recording Level :

- 250 nWb/m = 0 VU (315 Hz) (EIAJ) ;
with Dolby : 200 nWb/m = -1 VU

Remote Connector : 25-pin D-sub

Power Requirements :

- USA/Canada : 120 V AC, 60 Hz
U.K./Australia : 240 V AC, 50 Hz
Europe : 230 V AC, 50 Hz
Japan : 100 V AC, 50-60 Hz

Consumption :

- 122MK III/112RMK II : 23 W
112MK II : 20 W

Dimensions (WxHxL) : 482 mm x 132 mm (rubber feet not included) x 356.3 mm (19" x 5-3/16" x 14")

Weight :

- 122MK III/112MK II : 8.4 kg (18-8/16 lbs.)
112RMK II : 8.7 kg (19-3/16 lbs.)

Typical Performance**Speed Accuracy :**

- 122MK III : +/-0.5 %
112RMK II/112MK II : +/-1.0 %

Wow & Flutter 1) : less than 0.04 % WRMS

Fast Winding Time : 70 sec. (approx.) with C-60

Frequency Response, Overall 2) (EIAJ, without NR)

- 122MK III : 25 Hz to 20 kHz, +/-3 dB (Metal)
25 Hz to 19 kHz, +/-3 dB (CrO₂)
25 Hz to 17 kHz, +/-3 dB (Normal)
- 112RMK II : 25 Hz to 19 kHz, +/-3 dB (Metal)
25 Hz to 18 kHz, +/-3 dB (CrO₂)
25 Hz to 17 kHz, +/-3 dB (Normal)
- 112MK II : 25 Hz to 19 kHz, +/-3 dB (Metal)
25 Hz to 18 kHz, +/-3 dB (CrO₂)
25 Hz to 16 kHz, +/-3 dB (Normal)

Distortion 2) : less than 1.0 %, at 1 kHz, 160 nWb/m (Metal)

S/N Ratio 2) (metal tape)

- 122MK III/112RMK II : 60 dB (without NR, ref. 3 % THD, WTD)
112MK II : 59 dB (without NR, ref. 3 % THD, WTD)
68 dB (with Dolby-B NR, over 5 kHz)
78 dB (with Dolby-C NR, over 1 kHz)

Channel Separation 2) : 45 dB or better (1 kHz)

Erase Ratio 2) : 65 dB or better (1 kHz)

122MKⅢ/112RMKⅡ/112MKⅡ

In these specifications, 0 dBV is referenced to 1 Volt, and 0 dBm is referenced to 0.775 Volt. Actual voltage levels are shown in parenthesis.

- 1) Measurements made with TEAC test tape MTT-111
- 2) Measurements made with TEAC blank test tape MTT-5571 (Metal), MTT-5562 (CrO2) and MTT-5512 (Normal).

Dolby noise reduction and HX PRO headroom extension manufactured under license from Dolby Laboratories Licensing Corporation. HX PRO originated by Bang and Olufsen. "DOLBY", the double-D symbol "DD" and "HX PRO" are trademarks of Dolby Laboratories Licensing Corporation.

■ Changes in specifications and features may be made without notice or obligation.

■ この仕様は、0dBV = 1V, 0dBm = 0.775Vで表示しています。実際の電圧は()で示しています。

- 1) この項の仕様は、テスト・テープ TEAC MTT-111によります。
- 2) この項の仕様は、ブランク・テープ TEAC MTT-5571 (METAL), MTT-5562 (CrO2), MTT-5512 (NORMAL)によります。

■ 仕様および外観は、予告なく変更する場合があります。

* ドルビー・ノイズリダクション及びHXプロ・ヘッドルームエクステンションはドルビーラボラトリーズライセンシングコーポレーションからの実施権に基づき製造されています。

HXプロはBang and Olufsenの考案です。

* [ドルビー], [DD] 及び [HXプロ] はドルビーラボラトリーズライセンシングコーポレーションの登録商標です。

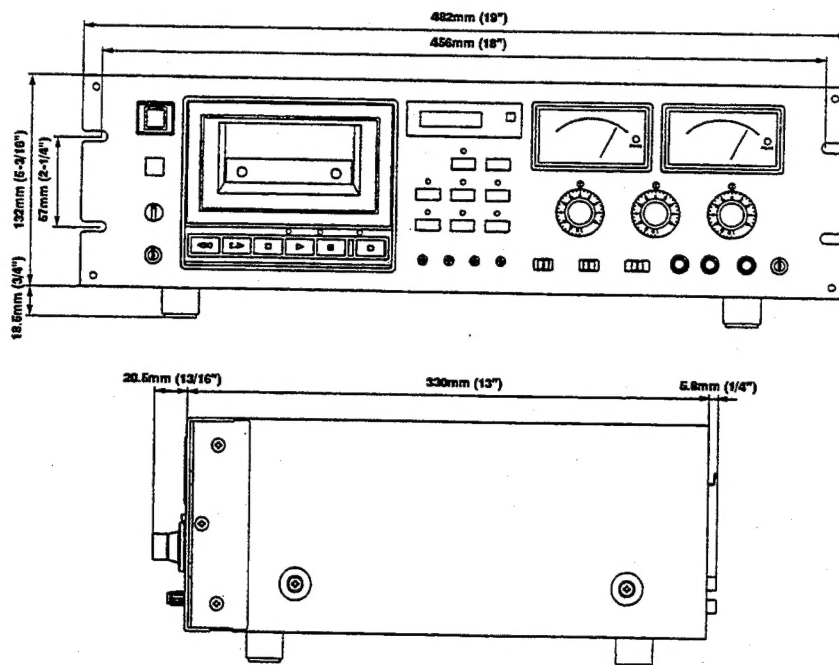


Illustration shows 122MKⅢ. The measurements of the three models are the same.

イラストは122MKⅢのもので。112RMKⅡ, 112MKⅡも同寸法です。

2. MECHANICAL CHECKS AND ADJUSTMENTS

機構部の確認と調整

2-1. Pinch Roller Pressure (122MKⅢ, 112RMKⅡ, 112MKⅡ)

1. Attach a spring scale to the pinch arm.
2. Push up the cassette switch (transport protection lever), then while holding the cassette switch up, press the PLAY button to engage the pinch roller and capstan shaft.
3. Pull the spring scale in direction indicated in Fig. 2-1 until the pinch roller fully loses contact with the capstan shaft; then slowly ease the scale so the pinch roller moves back toward the capstan shaft.
4. Note the reading on the spring scale the moment the pinch roller again starts rotating. The scale should read 380 to 480 g.

* Check both in FWD/PLAY (right pinch roller) and in REV/PLAY (left pinch roller) for 112RMKⅡ.

2-1. ピンチローラ圧着力 (122MKⅢ, 112RMKⅡ, 112MKⅡ)

1. ピンチ・アームにバネ秤を掛ける。
2. カセット・イン・スイッチ・アームを上方に押し、PLAYボタンを押して、プレイ・モードにする。測定中、スイッチ・アームは上方に押し続けること。
3. ピンチ・ローラがキャプスタン・シャフトから完全に離れるように秤を矢印の方向（図2-1）に引っ張った後、ピンチ・ローラが再びキャプスタン・シャフトに接触するように徐々に戻す。
4. ピンチ・ローラが回り始めるときの値を読む。

* 112RMKⅡは、FWD/PLAY（右ピンチ・ローラ）、REV/PLAY（左ピンチ・ローラ）共確認する。

規格：380～480 g

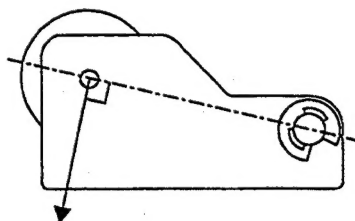


Fig. 2-1

2-2-A. Tape Positioning (122MKⅢ)

Adjustment Tools:

- Head adjustment jig "A" : Part No. 5736006600
- Head adjustment jig "B" : Part No. 5736006700
- Erase head spacer ; 0.05mm : Part No. 5801357800
0.1mm : Part No. 5800556200
0.2mm : Part No. 5801197800

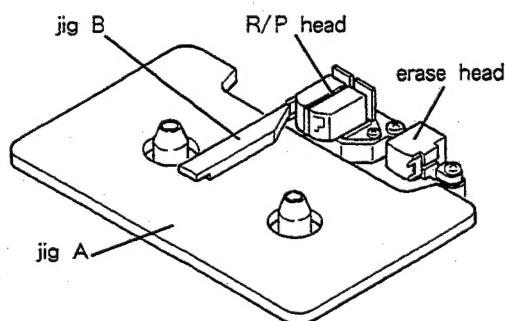


Fig. 2-2

2-2-A. テープ走行 (122MKⅢ)

調整治具

- ヘッド調整治具 A : 品番 5736006600
- ヘッド調整治具 B : 品番 5736006700
- 消去ヘッド・スペーサ 0.05mm : 品番 5801357800
0.1mm : 品番 5800556200
0.2mm : 品番 5801197800

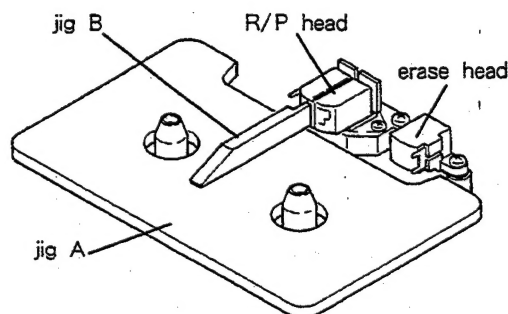


Fig. 2-3

1. Adjusting the erase head height
 - 1). Set jig A as shown in Fig. 2-2, then set the deck to PLAY mode.
 - 2). Confirm that jig B smoothly fits into the tape guide groove on the erase head.
If it doesn't, add or remove the spacer(s) between the erase head and head base.
2. Adjusting the R/P head height
 - 3). As with the erase head, confirm using jig B; for adjustment, use height adjustment screw A (Fig. 2-4).
3. Adjusting the R/P head tilt
 - 4). As shown in Fig. 2-3, place jig B against the head in order to confirm the tilt. Perform tilt adjustment with screw B (Fig. 2-4) so that the head is at right angles with respect to jig B.
 - 5). If tilt adjustment screw B is adjusted, revert to 3), then confirm again.
4. Adjusting R/P head azimuth
 - 6). As shown in Fig. 2-5, hook up the measuring instruments.
 - 7). Play back the 10 kHz signal on test tape MTT-256, then adjust playback azimuth adjustment screw C (Fig. 2-4) so that the phase difference between L and R channels is 0°.
 - 8). If azimuth adjustment screw C is turned more 45°, revert to 3), then reconfirm.
5. Confirming the tape travel
 - 9). When mirror tape MTT-902 is run in PLAY mode, see that the tape is free from curl at each guide portion.
 - 10). If the tape is curled, fine-adjust the R/P head height using screw A [or adjust the erase head height using spacer(s)] then revert to 6) and reconfirm.

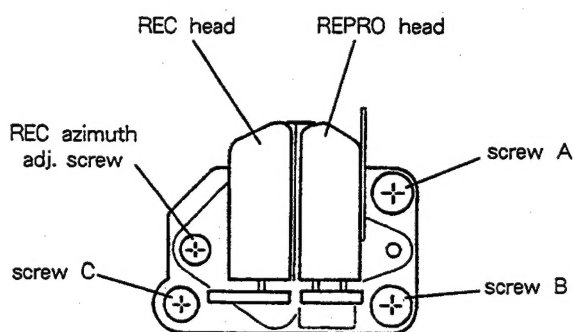


Fig. 2-4

1. 消去ヘッドの高さ調整
 - 1). 図2-2のように治具Aをセットし、PLAYモードにする。
 - 2). 治具Bが消去ヘッドのテープ・ガイド溝にスムーズに入ることを確認する。
そうでない場合は、消去ヘッドとヘッド・ベース間にあるスペーサを追加または除去することにより調整する。
2. R/Pヘッドの高さ調整
 - 3). 消去ヘッドと同様に治具Bで確認し、調整は高さ調整ネジA (図2-4) により行う。
3. R/Pヘッドのチルト調整
 - 4). 図2-3のように治具Bをヘッドに当ててチルトを確認し、ヘッドが治具Bに対して垂直になるようにチルト調整ネジB (図2-4) で調整する。
 - 5). チルト調整ネジBを調整した場合は、3) 項に戻りそれ以降を再度確認する。
4. R/Pヘッドのアジマス調整
 - 6). 図2-5のように測定器を接続する。
 - 7). テスト・テープMTT-256の10kHzを再生して、LchとRchの位相差が0°になるように再生アジマス調整ネジC (図2-4) で調整する。
 - 8). アジマス調整ネジCを45°以上回転させた場合は、3) 項に戻りそれ以降を再度確認する。
5. テープ走行の確認
 - 9). PLAYモードでミラー・テープMTT-902を走行させたとき、各ガイド部でテープのカールが無いことを確認する。
 - 10). カールしている場合は、R/Pヘッドの高さをネジAで微調整 (または消去ヘッドの高さをスペーサで調整) した後、6) 項に戻りそれ以降を再度確認する。

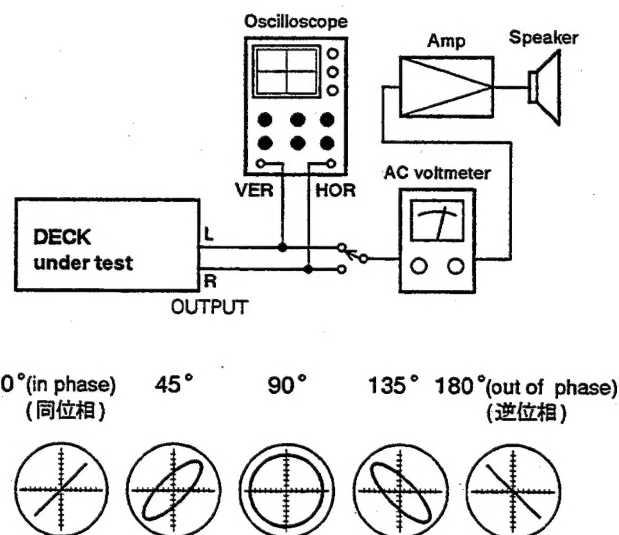


Fig. 2-5

2-2-B. Tape Positioning (112RMK II)

Adjustment Tools :

- Head adjustment jig "A" : Part No. 5736006600
- Head adjustment jig "B" : Part No. 5736006700
- R/P head spacer ; 0.05mm : Part No. 5801357700
- 0.1mm : Part No. 5800595000
- 0.2mm : Part No. 5800595100

2-2-B. テープ走行 (112RMK II)

調整治具

- ヘッド調整治具 A : 品番 5736006600
- ヘッド調整治具 B : 品番 5736006700
- R/Pヘッド・スペーサ 0.05mm : 品番 5801357700
- 0.1mm : 品番 5800595000
- 0.2mm : 品番 5800595100

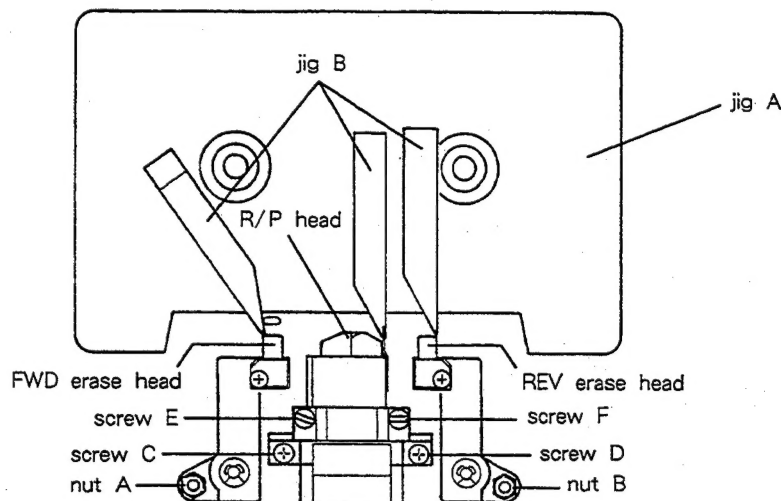


Fig. 2-6

1. Adjusting the erase head height

- 1). Set jig A as shown in Fig. 2-6, then set the deck to FWD/PLAY mode.
- 2). Confirm that jig B smoothly fits into the tape guide groove on the FWD erase head.
If it doesn't, adjust Allen nut A shown in Fig. 2-6.
- 3). Set the deck to REV/PLAY mode, and in a similar way, adjust the REV erase head using Allen nut B.
- 4). After adjustment is complete, repeat FWD/PLAY, and REV/PLAY for reconfirmation.

2. Adjusting the R/P head height

- 5). As in the confirmation of the erase head height, confirm the R/P head height in FWD/PLAY and REV/PLAY modes using jig B.
 - If the head is both high (or low) in FWD and REV modes, replace the spacer under screws C and D (Fig. 2-6) with a thin (or thick) one. (Add or remove the same number of spacers with the same thickness for both screws C and D.)
 - If jig B smoothly fits into the guide groove in both FWD and REV modes, or the height is opposite (example: high in FWD mode and low in REV mode), it should be deemed acceptable.

1. 消去ヘッドの高さ調整

- 1). 図2-6のように治具Aをセットし、FWD/PLAYモードにする。
- 2). 治具BがFWD用消去ヘッドのテープ・ガイド溝にスムーズに入ることを確認する。
そうでない場合は、図2-6の六角ナットAを調整する。
- 3). REV/PLAYモードにして、同様にREV用消去ヘッドの高さを六角ナットBで調整する。
- 4). 調整後、FWD/PLAY, REV/PLAYを繰り返して再度確認する。

2. R/Pヘッドの高さ調整

- 5). 消去ヘッドの高さ確認と同様に、FWD/PLAY, REV/PLAYモードにおけるR/Pヘッドの高さを治具Bで確認する。
 - FWD, REVでヘッドの高さが共に高い(低い)場合
ネジC, D (図2-6) の下のスペーサーを板厚の薄い(厚い)ものに換える。(C, D共同厚さのスペーサーを同枚数増減すること)
 - FWD, REV共、治具Bがガイド溝にスムーズに入る場合またはFWD, REVで高さが逆 (例: FWD時高い、REW時低い) の場合はOKとする。

3. Adjusting the R/P head azimuth

- 6). Hook up the measuring instruments as shown in Fig. 2-5.
- 7). Play back the 10 kHz signal on test tape MTT-256 in FWD/PLAY mode, then adjust FWD azimuth adjustment screw E (Fig. 2-6) so that the phase difference between the L and R channels is 0° .
- 8). Likewise, adjust REV azimuth adjustment screw F so that the phase difference in REV/PLAY mode is 0° .
- 9). If azimuth adjustment screw E or F is turned more than 45° , revert to 5), then reconfirm.
- 10). When mirror tape MTT-902 is run in FWD/PLAY and REV/PLAY modes, see that the tape is free from curl at each guide portion. At the same time, see that the tape comes into contact with the lower guide of the R/P head during FWD mode and that the tape comes into contact with the upper guide of the R/P head during REV mode.
- 11). If the tape is not traveling as described above, fine-adjust Allen nuts A and B on the erase head, then revert to 6) and reconfirm.

2-2-C. Tape Positioning (112MK II)

Adjustment Tools :

- Head adjustment jig "A" : Part No. 5736006600
- Head adjustment jig "B" : Part No. 5736006700
- Erase head spacer ; 0.05mm : Part No. 5801357800
0.1mm : Part No. 5800556200
0.2mm : Part No. 5801197800
- R/P head spacer ; 0.05mm : Part No. 5801357700
0.1mm : Part No. 5800595000
0.2mm : Part No. 5800595100

1. Adjusting the erase head height

- 1). Set jig A as shown in Fig. 2-7, then set the deck to PLAY mode.
- 2). Confirm that jig B smoothly fits into the tape guide groove on the erase head.
If it doesn't, add or remove the spacer(s) between the erase head and head base.

2. Adjusting the R/P head height

- 3). As with the erase head, confirm using jig B, and make adjustment using spacer(s).

3. Adjusting the R/P head azimuth

- 4). As shown in Fig. 2-5, hook up the measuring instruments.
- 5). Play back the 10 kHz signal on test tape MTT-256, then adjust the azimuth adjustment screw (Fig. 2-7) so that the phase difference between the L and R channels is 0° .
- 6). If the azimuth adjustment screw is turned more than 45° , revert to 3), then reconfirm.

3. R/Pヘッドのアジマス調整

- 6). 図2-5のように測定器を接続する。
- 7). FWD/PLAYモードでテスト・テープ MTT-256の 10kHz を再生して、LchとRchの位相差が 0° になるようにFWD用アジマス調整ネジE (図2-6) を調整する。
- 8). 同様に、REV/PLAYモードで位相差が 0° になるようにREV用アジマス調整ネジFを調整する。
- 9). アジマス調整ネジEまたはFを 45° 以上回転させた場合は、5) 項に戻りそれ以降を再度確認する。

4. テープ走行の確認

- 10). FWD/PLAY, REV/PLAYモードでミラー・テープ MTT-902を走行させたとき、各ガイド部でテープのカールが無いことを確認する。また、FWD時、R/Pヘッドの下ガイドに、REV時、R/Pヘッドの上ガイドにテープが当たることを確認する。
- 11). 上記のようにテープが走行していない場合は、消去ヘッドの六角ナットA, Bで微調整した後、6) 項に戻りそれ以降を再度確認する。

2-2-C. テープ走行 (112MK II)

調整治具

- ヘッド調整治具A : 品番 5736006600
- ヘッド調整治具B : 品番 5736006700
- 消去ヘッド・スペーサ 0.05mm : 品番 5801357800
0.1mm : 品番 5800556200
0.2mm : 品番 5801197800
- R/Pヘッド・スペーサ 0.05mm : 品番 5801357700
0.1mm : 品番 5800595000
0.2mm : 品番 5800595100

1. 消去ヘッドの高さ調整

- 1). 図2-7のように治具Aをセットし、PLAYモードにする。
- 2). 治具Bが消去ヘッドのテープ・ガイド溝にスムーズに入ることを確認する。
そうでない場合は、消去ヘッドとヘッド・ベース間にあるスペーサを追加または除去することにより調整する。

2. R/Pヘッドの高さ調整

- 3). 消去ヘッドと同様に治具Bで確認し、調整も消去ヘッドと同様にスペーサで行う。

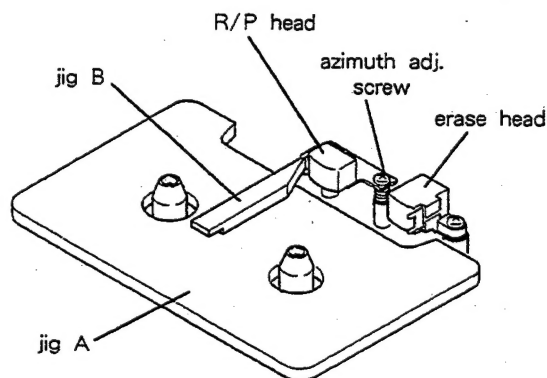


Fig. 2-7

4. Confirming the tape travel

- 7). When mirror tape MTT-902 is run in PLAY mode, see that the tape is free from curl at each guide portion.
- 8). If the tape is curled, adjust the erase head height using spacer(s), then revert to 4) and reconfirm.

2-3. Reel torque (122MKⅢ, 112RMKⅡ, 112MKⅡ)

1. Take-up torque/back tension

- 1). Set up the cassette torque meter (MTT-8111), then set the deck to PLAY mode (FWD/PLAY mode in the case of the 112RMKⅡ) and read the value on the torque meter. (If the reading has a deflection [the pointer swings], use the center value.) The standard range is as follows:
- 2). Likewise, put the cassette torque meter (MTT-8121) to the 112RMKⅡ, then set the deck to REV/PLAY mode and read the value on the torque meter.

Take-up torque: 25 to 65 g·cm

Back tension: 122MKⅢ, 112RMKⅡ; 6 to 10 g·cm
112MKⅡ; 2 to 6 g·cm

2. F.FWD/REW torque

Set up the cassette torque meter (MTT-8242), then measure the starting torques in F.FWD and REW operations, respectively.

F.FWD/REW torque: 80 g·cm or more

2-4. Tape speed (122MKⅢ, 112RMKⅡ, 112MKⅡ)

1. As shown in Fig. 2-8, connect the frequency counter.
2. Load the test tape MTT-111N.
3. Let the capstan motor rotate in PLAY mode, then leave it as it is for at least one minute to warm it up.
4. Set the PITCH CONT switch to OFF.
5. Play back the middle section of the test tape, then adjust trimmer resistor R1 (Fig. 2-9) on the P.CONT PCB so that the frequency counter reads 3000 ± 5 Hz.
6. Set the PITCH CONT switch to ON, then set the PITCH CONT knob to the center.
7. Play back the middle section of the test tape, then adjust trimmer resistor R2 (Fig. 2-9) on the P.CONT PCB so that the frequency counter reads 3000 ± 5 Hz.
8. Upon completion of adjustment, confirm that the following value is obtained at the beginning and end of the tape.

Speed variations: 3000 ± 45 Hz

Fluctuation range: within 30 Hz

3. R/Pヘッドのアジマス調整

- 4). 図2-5のように測定器を接続する。

- 5). テスト・テープ MTT-256の10kHzを再生して、LchとRchの位相差が 0° になるようにアジマス調整ネジ (図2-7) で調整する。

- 6). アジマス調整ネジを 45° 以上回転させた場合は、3) 項に戻りそれ以降を再度確認する。

4. テープ走行の確認

- 7). PLAYモードでミラー・テープ MTT-902を走行させたとき、各ガイド部でテープのカールが無いことを確認する。
- 8). カールしている場合は、消去ヘッドの高さをスパーサで調整した後、4) 項に戻りそれ以降を再度確認する。

2-3. リール・トルク

(122MKⅢ, 112RMKⅡ, 112MKⅡ)

1. テイクアップ・トルク/バックテンション

- 1). カセット・トルク・メータ (MTT-8111) を装着し、PLAYモード (112RMKⅡは、FWD/PLAYモード) にしてトルク・メータの値を読む。(振れのある場合は中心値とする) 規格値は下記の通り。
- 2). 112RMKⅡは、同様にカセット・トルク・メータ (MTT-8121) を装着し、REV/PLAYモードにしてトルク・メータの値を読む。

テイクアップ・トルク: 25~65 g·cm

バックテンション: 122MKⅢ, 112RMKⅡ; 6~10 g·cm
112MKⅡ; 2~6 g·cm

2. F.FWD/REW トルク

カセット・トルク・メータ (MTT-8242) を装填し、F.FWD動作およびREW動作の起動トルクをそれぞれ測定する。

F.FWD/REWトルク: 80 g·cm以上

2-4. テープ速度

(122MKⅢ, 112RMKⅡ, 112MKⅡ)

1. 図2-8のように、周波数カウンタを接続する。
2. テスト・テープ MTT-111Nを装着する。
3. PLAYモードでキャプスタン・モータを回転させ、ウォーミングアップするために、少なくとも1分間そのままにしておく。
4. PITCH CONTスイッチをOFFにする。
5. テスト・テープの中間部を再生し、周波数カウンタの値が 3000 ± 5 Hzになるように P.CONT PCBの半固定抵抗 R1 (図2-9) を調整する。
6. PITCH CONTスイッチをONにし、PITCH CONTつまみを中央にセットする。
7. テスト・テープの中間部を再生し、周波数カウンタの値が 3000 ± 5 Hzになるように P.CONT PCBの半固定抵抗 R2 (図2-9) を調整する。

122MKⅢ/112RMKⅡ/112MKⅡ

9. Confirm that the frequency is 2700 Hz or less when the PITCH CONT knob is set to minimum with the PITCH CONT switch ON and 3300 Hz or more when the PITCH CONT knob is set to maximum.

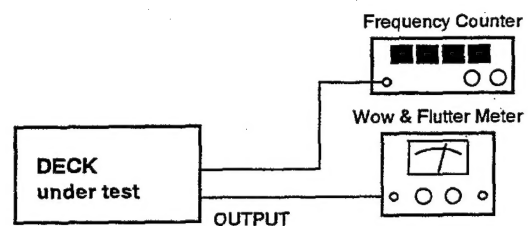


Fig. 2-8

2-5. Wow and flutter (122MKⅢ, 112RMKⅡ, 112MKⅡ)

Note: Measurements should be made in PLAY mode at the beginning, middle and end of the tape, respectively. (However, avoid the first graduation on the cassette shell for the beginning and end of the tape.)

1. As shown in Fig. 2-8, connect the wow & flutter meter to the deck.
2. Play back the test tape MTT-111N.
3. Measure the wow-flutter value. The standard range is as follows:

within 0.06 % (WRMS)

2-6. Adjusting the quick reverse voltage (112RMKⅡ)

1. Connect the DC voltmeter between TP2 (Fig. 2-10) on the CONT S PCB and GND.
2. When blank tape MTT-5512 is played back in the REV/PLAY mode, adjust R26 (Fig. 2-10) on the CONT S PCB so that the voltage at TP2 reads 2.5 V.

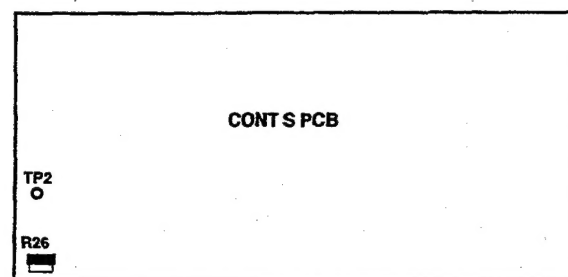


Fig. 2-10

8. 調整後、テープの巻始めと巻終わりで、下記の値が得られることを確認する。

速度偏差 : 3000 ± 45 Hz
変動幅 : 30 Hz 以内

9. PITCH CONT スイッチ ON で、PITCH CONT つまみを最小にしたとき 2700Hz 以下、最大にしたとき 3300Hz 以上であること。

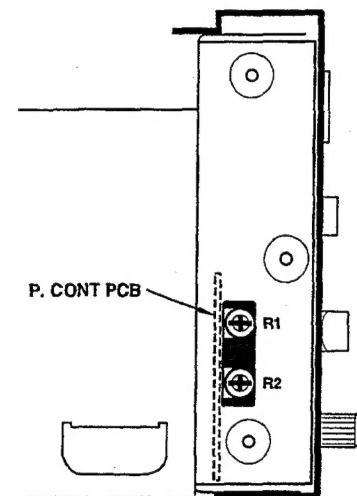


Fig. 2-9

2-5. ワウ・フラッタ (122MKⅢ, 112RMKⅡ, 112MKⅡ)

注意: 測定は再生法により、テープの巻始め、中間部、巻終わりでそれぞれ行なってください。(但し、カセット・ハーフの巻始めと巻終わりの1目盛りは除く)

1. 図2-8のように、ワウ・フラッタ・メータをデッキに接続する。
2. テスト・テープ MTT-111N を再生する。
3. ワウ・フラッタ値を測定する。規格値は次の通り。
0.06 % 以内 (WRMS)

2-6. クイック・リバース電圧調整 (112RMKⅡ)

1. CONT S PCB の TP2 (図2-10) と GND 間に DC 電圧計を接続する。
2. REV/PLAY モードで、ブランク・テープ MTT-905 を再生したとき、TP2 の電圧が 2.5V になるように CONT S PCB の R26 (図2-10) を調整する。

3. AMPLIFIER SECTION CHECKS AND ADJUSTMENTS

アンプ部の確認と調整

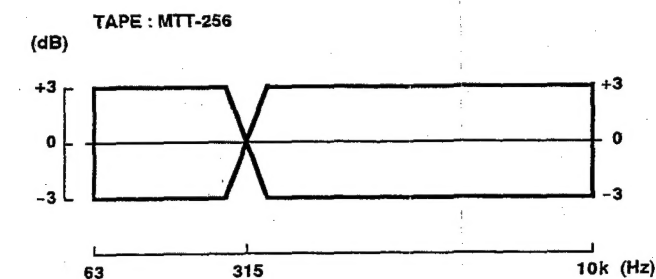


Fig. 3-1 Playback frequency
再生周波数特性

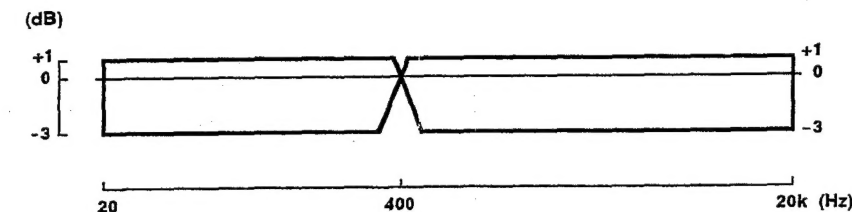


Fig. 3-2 Monitor frequency response
モニター周波数特性

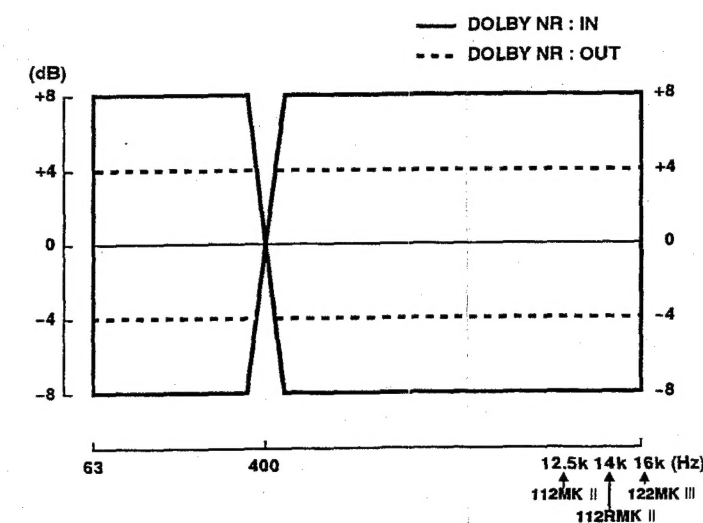


Fig. 3-3 Overall frequency response
録再周波数特性

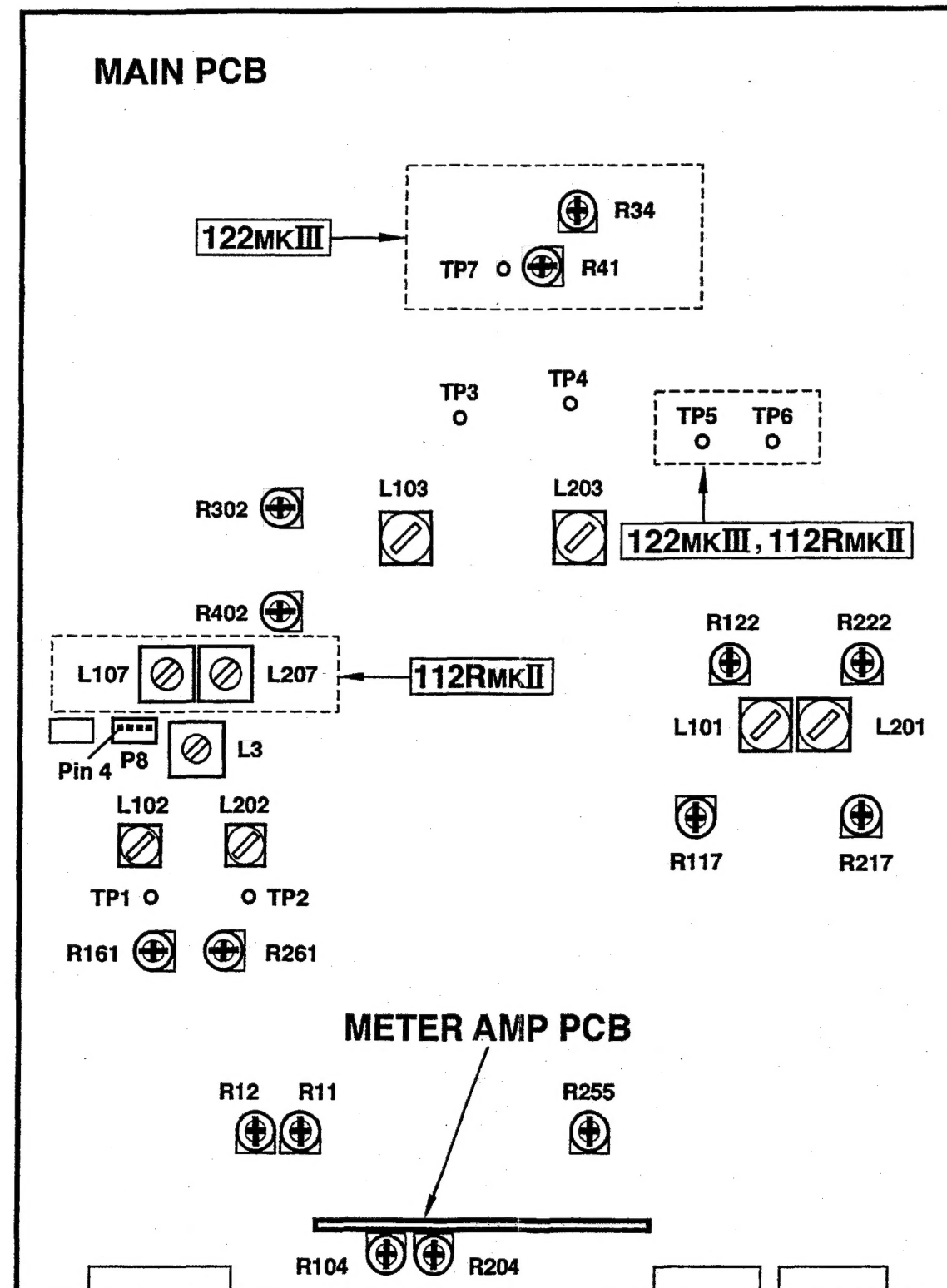


Fig. 3-4 Adjustment and test point locations
調整とテスト・ポイント個所

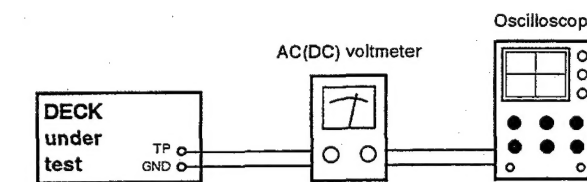


Fig. 3-5

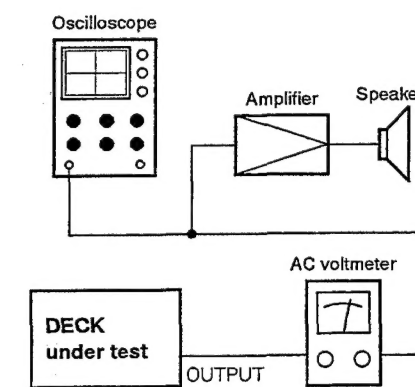


Fig. 3-6

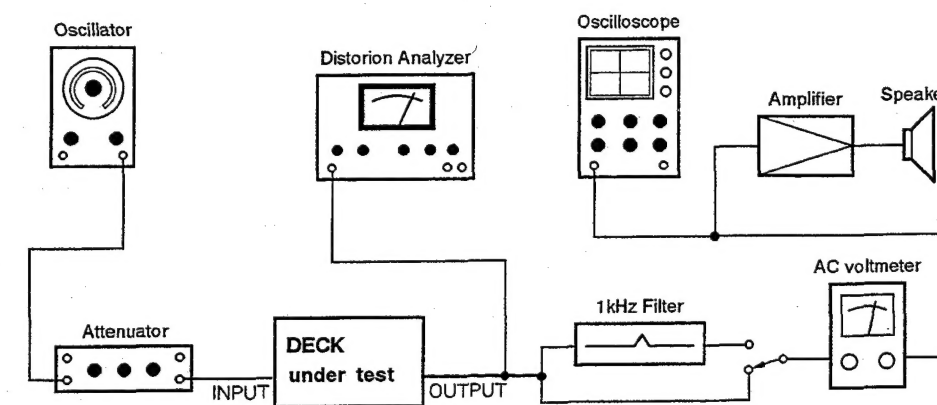


Fig. 3-7

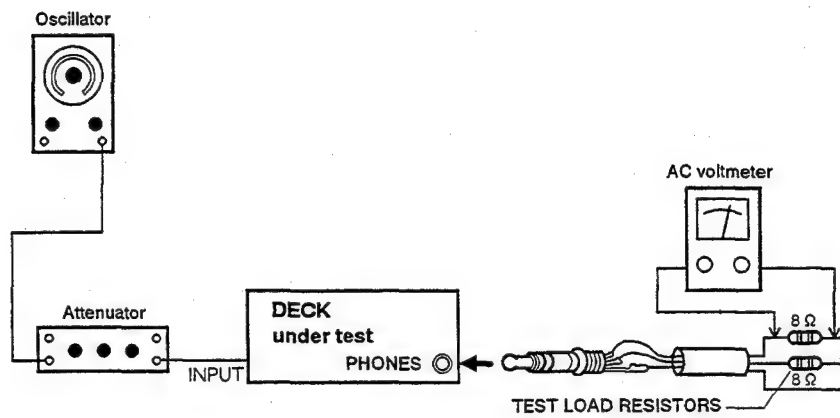


Fig. 3-8

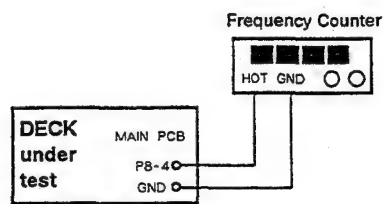


Fig. 3-9

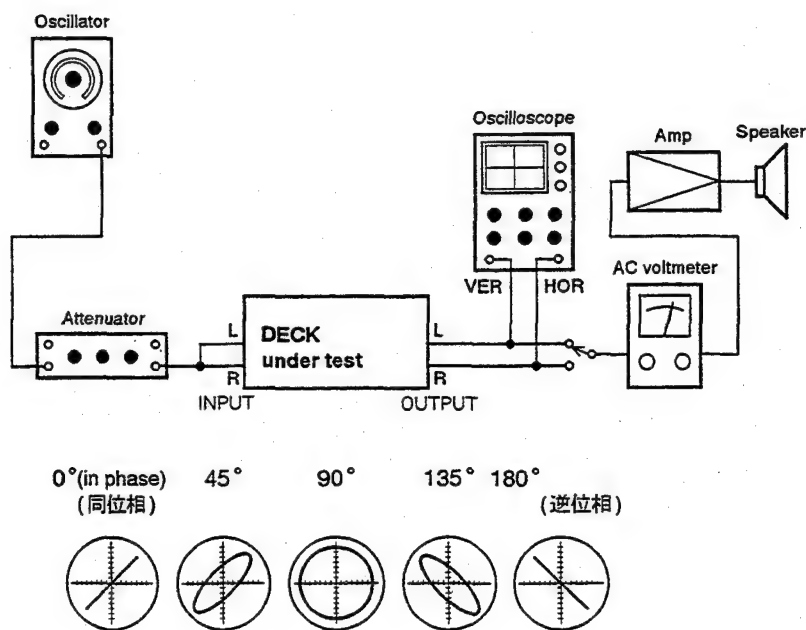


Fig. 3-10

3-1. Precautions

1. Before performing adjustments and checks clean and demagnetize the entire tape path.
2. Indication, for example, "R122/R222" means that R122 is for Lch, R222 is for Rch.
3. 0 dBm is referenced to 0.775 V. 0 dBV is referenced to 1.0 V.
4. The AC voltmeter used in the procedures must have an input impedance of 1 MΩ or more.
5. Unless otherwise specified, refer to Fig. 3-4 for location of test points and adjustment points.
6. Unless otherwise specified, leave all keys and switches in the OFF position.

3-1. 注意

1. アンプ部の調整・確認の前に、テープ走行系の消磁と清掃を行ってください。
2. R122/R222と記されている部番は、Lch/Rchを示します。
3. 0dBm = 0.775V, 0dBV = 1.0Vで表示しています。
4. レベル計は、入力インピーダンス 1MΩ以上のものを使用してください。
5. 特に指示のない場合、テスト・ポイントおよび調整箇所は図3-4を参照してください。
6. 特に指示のない限り、キーおよびスイッチ類はOFFにしておいてください。

3-2. Playback System 再生系

Test Mode : PLAY

MONITOR switch : AUTO

| Adjustment Item 調整項目 | Preliminary 準備・設定 | Input Signal 入力信号 | Adjustment Point 調整箇所 | Measurement Method / Value Adjusted For 測定方法・調整値 |
|---|----------------------------|----------------------|--|--|
| 1. Reproduce reference level 再生基準レベル | Connection (接続) : Fig. 3-5 | MTT - 150 | R122/R222 | 122MKⅢ, 112RMKⅡ : TP5/TP6 : -6dBm 112MKⅡ : TP3/TP4 : -6dBm |
| | Connection (接続) : Fig. 3-6 | | OUTPUT cont. | OUTPUT (RCA, Lch) : -11dBV |
| | | | R255 | OUTPUT (RCA, Rch) : -11dBV |
| | | | After adjusting, do not move the OUTPUT cont. (Nominal position) 調整後は、OUTPUTつまみを動かさないこと。(規定位置) | |
| 2. Repro. Frequency Response 再生周波数特性 | Connection (接続) : Fig. 3-6 | MTT - 256 | R117/R217 | OUTPUT (RCA) : Same output level at 10 kHz and 315 Hz 10kHzの出力レベルが315Hzの出力レベルと同じになるように調整 |
| | | | Check | Specs (規格) : Fig. 3-1 |
| 3. Level Difference between Channels チャンネル間レベル差 | Same as above 同上 | Same as above 同上 | Check only | within 3 dB (within the limits of reproduce frequency response) (再生周波数特性規格内において) |
| 4. Level Fluctuation レベル変動 | Same as above 同上 | Same as above 同上 | Check only | 63 Hz~6.3 kHz, within 2 dB 6.3 kHz~10 kHz, within 3 dB |
| 5. Reproduce S/N ratio 再生SN比 | Same as above 同上 | — | Check only | Measure output when leader tape is played back with the unit set for nominal output level, and compare this reading with nominal output level. 基準出力状態で、リーダー・テープを再生したと きのノイズ・レベルは基準出力レベルと比べて以 下のこと。 S/N (120 μs) : 46 dB or more S/N (70 μs) : 48 dB or more Deference between channels : 4 dB or less |

3-3. Monitor System モニター系

Test Mode : STOP (unless otherwise specified 特に指示の無い限り)

MONITOR switch : INPUT

| Adjustment Item 調整項目 | Preliminary 準備・設定 | Input Signal 入力信号 | Adjustment Point 調整箇所 | Measurement Method / Value Adjusted For 測定方法・調整値 |
|--|--|--|---|---|
| 1. Minimum input level 最小入力レベル | Connection (接続) : Fig. 3-7 INPUT cont. : Max. | INPUT (Rear, RCA) : 400 Hz/-18 dBV | Check only | OUTPUT (RCA) : -10 dBV \pm 3 dB |
| 2. Nominal input level 基準入力レベル | Connection (接続) : Fig. 3-7 | INPUT (Rear, RCA) : 400 Hz/-10 dBV | INPUT cont. L, R After adjusting, do not move the INPUT controls. (Nominal position) 調整後は、INPUTつまみを動かさないこと。(規定位置) | OUTPUT (RCA) : -10 dBV |
| 3. Meter level メーター・レベル | Same as above 同上 | Same as above 同上 | METER AMP PCB : R104/R204 | VU meter indication : 0 VU |
| 4. MPX FILTER MPXフィルター | Connection (接続) : Fig. 3-7 MPX FILTER sw. : ON | INPUT (Rear, RCA) : 19 kHz/-10 dBV | L103/L203 | OUTPUT (RCA) : Minimum output level (Effect : 30 dB or more) 出力レベルが最小になるよう調整 (効果量は30dB以上のこと) |
| 5. XLR output level XLR出力レベル (122MKⅢ only) | Connection (接続) : Fig. 3-7 INPUT sw. : BAL | INPUT (Rear, XLR) : 400 Hz/+4 dBm | Check only | OUTPUT (XLR) : +4 dBm \pm 1 dB at 100 k Ω load (+2.5 dBm \pm 1 dB at 600 Ω load) |
| 6. Front input FRONT入力 | Connection (接続) : Fig. 3-7 | INPUT (Front, 1/4") : 400 Hz/-10 dBV | Check only | OUTPUT (RCA) : -10 dBV \pm 2 dB |
| 7. PHONES output level PHONES出力レベル | Connection (接続) : Fig. 3-8 PHONES cont. : Max. | INPUT (Rear, RCA) : 400 Hz/-10 dBV | Check only | PHONES OUT : 100 mW or more (8 Ω load) 100mW以上 (8 Ω 負荷) |
| 8. Monitor S/N モニター・S/N | Connection (接続) : Fig. 3-7 | No signal 無信号 | Check only | OUTPUT (RCA, XLR) : 60 dB or more (DIN AUDIO) 60dB以上 (DIN AUDIO) |
| 9. Monitor frequency response モニター周波数特性 | Same as above 同上 | INPUT (Rear, RCA) : 20 ~ 20 kHz/-10 dBV | Check only | OUTPUT (RCA, XLR) : Specs (規格) : Fig. 3-2 |
| 10. Internal osc. 内部発振器 (122MKⅢ only) | Connection (接続) : Fig. 3-5 With REC/PLAY mode, press ADJUST key, then press OSC key. REC/PLAY状態で、ADJUSTキーをONにし、そしてOSCキーをONにする。 | No signal 無信号 | R34 | While alternating the oscillator signal between 10 kHz and 400 Hz by pressing the 10 kHz sw. on and off, adjust for same output level at TP7. 10 kHzスイッチをON/OFFし、TP7の出力レベルが同じになるように調整する。 |
| | | | R41 | Set the oscillator to 400 Hz (10 kHz sw. off) and adjust for -28 dBV at TP7. 10 kHzスイッチをOFFにし、TP7の出力レベルが-28dBVになるように調整する。 |

122MKⅢ/112RMKⅡ/112MKⅡ

3-4. Recording System 録音系

Test Mode : REC/PLAY (unless otherwise specified 特に指示の無い限り)

MONITOR switch : AUTO

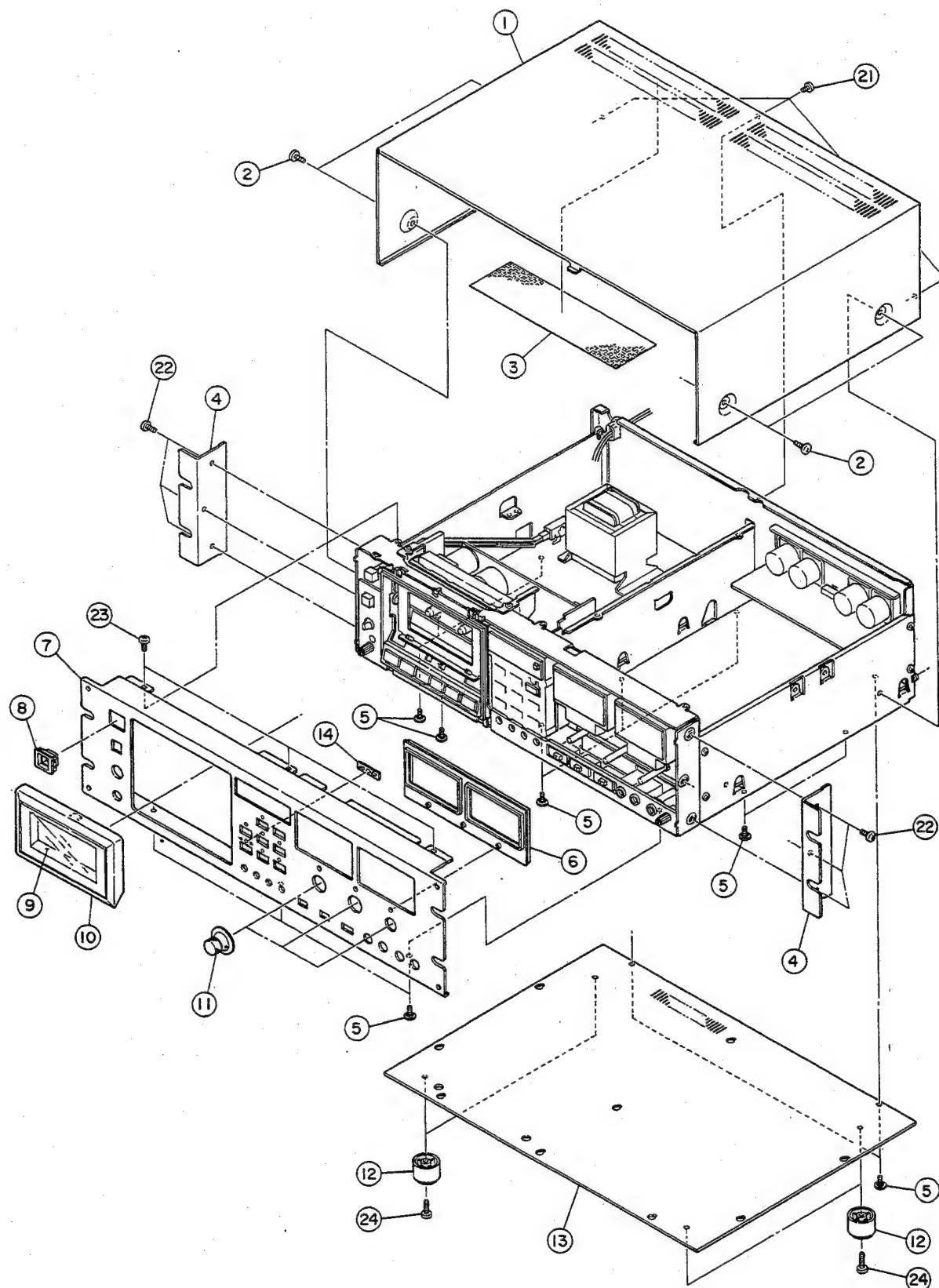
| Adjustment Item 調整項目 | Preliminary 準備・設定 | Input Signal 入力信号 | Adjustment Point 調整箇所 | Measurement Method / Value Adjusted For 測定方法・調整値 |
|--|--|--|---|--|
| 1. Bias OSC frequency バイアス発振周波数 | 112RMKⅡ : Connection (接続) : Fig. 3-9 Test tape : MTT-5571 Mode : FWD REC/PAUSE & REV REC/PAUSE | — | L3 (for FWD) L207 (for REV) | Connector P8 pin4 : 100 ± 0.1 kHz |
| | 122MKⅢ, 112MKⅡ : Connection (接続) : Fig. 3-9 Test tape : MTT-5571 Mode : REC/PAUSE | | L3 | 122MKⅢ : Connector P8 pin4 : 150 ± 0.1 kHz 112MKⅡ : Connector P8 pin4 : 100 ± 0.1 kHz |
| 2. HX PRO coil HXプロ コイル | Connection (接続) : Fig. 3-5 Test tape : MTT-5571 Mode : REC/PAUSE | — | L102/L202 | TP1/TP2 : Max. DC voltage DC電圧最大 |
| 3. Rec azimuth, Temporary bias 録音アジマス、仮バ イアス (122MKⅢ only) | Connection (接続) : Fig. 3-10 Test tape : MTT-5512 (NORMAL) | INPUT (Rear, RCA) : 10 kHz/-36 dBV | R161/R261 | OUTPUT (RCA) : Max. output level 出力レベル最大 |
| | | | REC azimuth adj. screw (Fig. 2-4) | OUTPUT (RCA) : Phase between Lch/Rch : 0° Lch と Rch の位相が同じになるように調整 |
| 4. Bias set-1 バイアス・セット-1 | Connection (接続) : Fig. 3-7 Test tape : MTT-5512 (NORMAL) | INPUT (Rear, RCA) : 400 Hz, -10 kHz/ -36 dBV | R161/R261 | OUTPUT (RCA) : Same output level at 400 Hz and 10 kHz. 400Hz と 10kHz の出力レベルが同じになるよう に調整 |
| 5. Rec level-1 録音レベル-1 | Same as above 同上 | INPUT (Rear, RCA) : 400 Hz/-14 dBV | R302/R402 | OUTPUT (RCA) : -14 dBV |
| 6. Bias set-2 バイアス・セット-2 | Connection (接続) : Fig. 3-7 Test tape : MTT-5562 (CrO2) | INPUT (Rear, RCA) : 400 Hz, 10 kHz/ -36 dBV | R11 | OUTPUT (RCA) : Same output level at 400 Hz and 10 kHz. 400Hz と 10kHz の出力レベルが同じになるよう に調整 |
| | Connection (接続) : Fig. 3-7 Test tape : MTT-5571 (METAL) | Same as above 同上 | R12 | Same as above 同上 |
| 7. Rec level-2 録音レベル-2 | Connection (接続) : Fig. 3-7 Test tape : Same item 6. | INPUT (Rear, RCA) : 400 Hz/-14 dBV | Check only | OUTPUT (RCA) : $-14 \text{ dBV} \pm 2 \text{ dB}$ |
| 8. Total harmonic distortion 総合歪率 | Connection (接続) : Fig. 3-7 Test tape : Same item 3 and 6. | Same as above 同上 | Check only | OUTPUT (RCA) : 122MKⅢ, 112RMKⅡ : 2.0 % or less for all tapes. 112MKⅡ : 2.5 % or less for all tapes. 各テープで2.0%以下 (112MKⅡは、2.5%以 下) |

| Adjustment Item 調整項目 | Preliminary 準備・設定 | Input Signal 入力信号 | Adjustment Point 調整箇所 | Measurement Method / Value Adjusted For 測定方法・調整値 |
|--|--|---|--------------------------|--|
| 9. Overall frequency response 総合周波数特性 | Connection (接続): Fig. 3-7 DOLBY NR: OUT and IN | INPUT (Rear, RCA): 63 Hz ~ 16 kHz/ -36 dBV | Check only | OUTPUT (RCA): Specs (規格): Fig. 3-3 |
| 10. Level difference between channels チャンネル間レベル差 | Connection (接続): Fig. 3-7 | INPUT (Rear, RCA): 63 Hz ~ 10 kHz/ -36 dBV | Check only | OUTPUT (RCA): 63 Hz ~ 6.3 kHz: within 3 dB 6.3 ~ 10 kHz: within 4 dB |
| 11. Rec/repro level fluctuation 録再レベル変動 | Same as above 同上 | INPUT (Rear, RCA): 63 Hz ~ 14 kHz/ -36 dBV | Check only | OUTPUT (RCA): 400 Hz: within 1 dB 63 Hz ~ 6.3 kHz: within 2 dB 6.3 ~ 14 kHz: 3 dB |
| 12. Track crosstalk トラック間クロストーク | Same as above 同上 | INPUT (Rear, RCA): Lch: no signal Rch: 125 Hz/-10 dBV | Check only | OUTPUT (RCA): 40 dB or more |
| Record a 125 Hz signal on Rch and note output level. Then invert tape and play Rch track. Check leakage level against the output reference of previously recorded portion. Rchに125Hzの信号を録音し、その再生出力を基準レベルとする。 次にテープを反転し、再生したときのRchの出力レベルとの比を測定する。 | | | | |
| 13. Channel separation チャンネル・セパレーション | Connection (接続): Fig. 3-7 1 kHz B.P.F. connect 1 kHz B.P.F. 接続 | INPUT (Rear, RCA): Lch: 1 kHz/-10 dBV Rch: no signal | Check only | OUTPUT (RCA): 30 dB or more |
| Find the difference between the 1 kHz recorded portion (Lch) and the "no signal" recorded portion (Rch). 1kHz録音部分 (Lch) と無信号録音部分 (Rch) との再生出力レベルの比を測定する。 | | | | |
| 14. Erasure 消去率 | Same as above 同上 | INPUT (Rear, RCA): 1 kHz/0 dBV | Check only | OUTPUT (RCA): 65 dB or more |
| Record a 1 kHz signal and rewind tape to mid point of recorded portion. Erase the recorded portion with no input signal and find the difference between the 1 kHz portion and the "no signal" portion. 1kHzの信号を録音後、テープを巻き戻して一部を消去する。未消去部分と消去部分との比を測定する。 | | | | |
| 15. Overall S/N 総合S/N | Connection (接続): Fig. 3-7 Test tape: Same item 8. | No signal 無信号 | Check only | OUTPUT (RCA): MTT-5512 (NORMAL): 45 dB or more MTT-5562 (CrO2): 47 dB or more MTT-5571 (METAL): 47 dB or more Reference level 基準レベル: -10 dBV |
| 16. Bias leakage バイアス洩れ | Connection (接続): Fig. 3-7 | No signal 無信号 | L101/L201 | OUTPUT (RCA): Minimum bias leakage バイアス洩れ最小 Specs (規格): -40 dBV or less |

4. EXPLODED VIEWS AND PARTS LISTS

分解図とパーツリスト

EXPLODED VIEW-1



EXPLODED VIEW-I

| REF.NO. | PARTS NO. | DESCRIPTION | REMARKS |
|---------|-------------|--------------------------------|---------|
| I- 1 | *5801350900 | BONNET (B) | |
| I- 2 | *5800612400 | SCREW,BONNET M3X8(BLK) | |
| I- 3 | *5801499600 | FILTER,BONNET [C] | |
| I- 4 | 5801348701 | ANGLE | |
| I- 5 | *5801566100 | SCREW,STEP S-TITE 3X6 | |
| I- 6 | *5801568500 | ESCUTCHEON,METER | |
| I- 7 | *5801568000 | PANEL,FRONT [112RMK2] | |
| | *5801568100 | PANEL,FRONT [122MK3] | |
| | *5801568200 | PANEL,FRONT [112MK2] | |
| I- 8 | *5801486600 | ESCUTCHEON, D P-N15-A | |
| I- 9 | 5801501800 | WINDOW,CASSETTE | |
| I-10 | 5801500700 | LID,CASSETTE | |
| I-11 | 5801349300 | KNOB | |
| I-12 | 5504676000 | FOOT | |
| I-13 | *5801342500 | PLATE,BOTTOM | |
| I-14 | 5801568400 | LENS [112RMK2] | |
| I-21 | *5783773006 | SCREW,BIND B-TITE M3X6(BLK ZN) | |
| I-22 | *5783534008 | SCREW,BIND B-TITE M4X8(BLK NI) | |
| I-23 | *5730017600 | SCREW,BIND BR-TITE M3X6 | |
| I-24 | *5783034020 | SCREW,BIND S-TITE M4X20 | |

INCLUDED ACCESSORIES

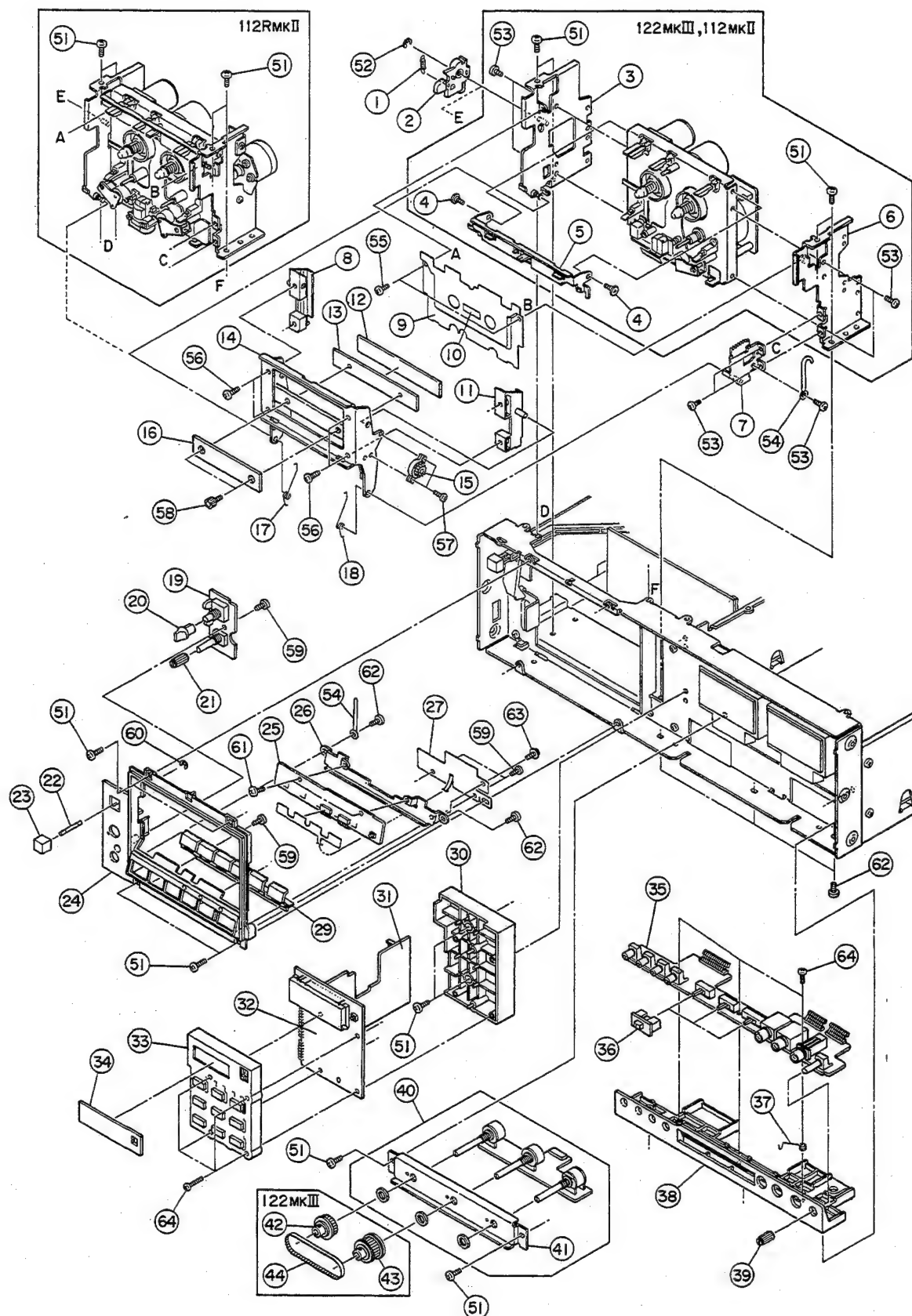
| REF.NO. | PARTS NO. | DESCRIPTION | REMARKS |
|---------|-------------|------------------------------|---------|
| | *5700140501 | OWNER'S MANUAL(J) [J] | |
| | *5700140600 | OWNER'S MANUAL(F\$G) [C,E] | |
| | *5700140701 | OWNER'S MANUAL(E) [EXCEPT J] | |
| | *5780315015 | SCREW, OVAL COUN. M5X15(NI) | |
| | *5801512200 | WASHER, 5X12X3 | |
| | *5785225000 | WASHER, FIBER 5X10X0.5T(BLK) | |

[US]:U.S.A. [E]:EUROPE [UK]:U.K. [C]:CANADA [J]:JAPAN
[A]:AUSTRALIA

Parts marked with * require longer delivery time.

122MKⅢ/112RMKⅡ/112MKⅡ

EXPLODED VIEW-2



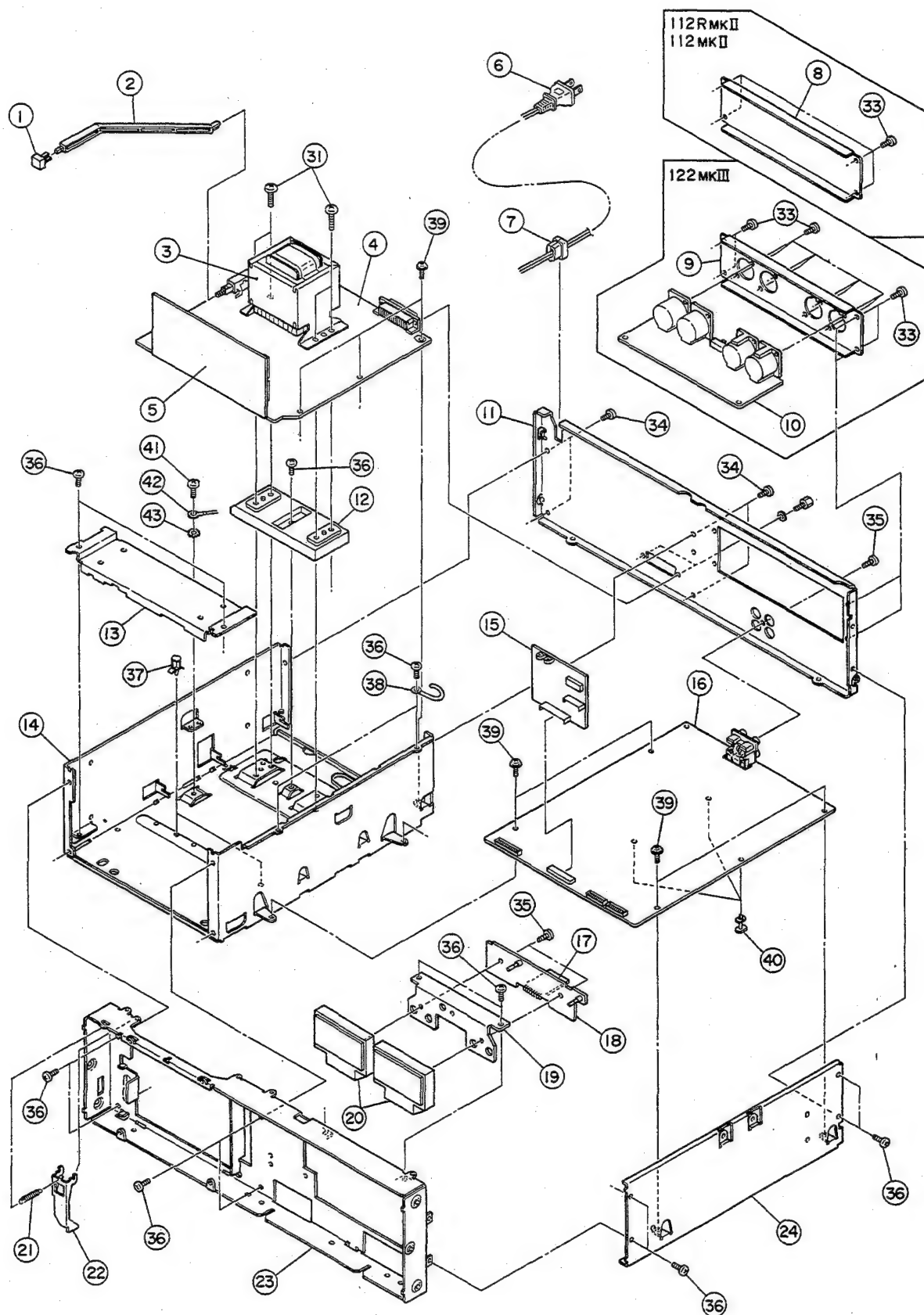
EXPLODED VIEW-2

| REF.NO. | PARTS NO. | DESCRIPTION | REMARKS |
|---------|-------------|------------------------------------|------------------------|
| 2- 1 | *5801511300 | SPRING, LOCK ARM | |
| 2- 2 | *5801501500 | ARM, LOCK | |
| 2- 3 | *5801510000 | SIDE CHASSIS(L) ASSY | |
| 2- 4 | *5801511200 | SCREW, STEP | |
| 2- 5 | *5801501900 | ARM, SWITCH | |
| 2- 6 | *5801502400 | CHASSIS(R), SIDE | |
| 2- 7 | *5801510100 | SUB SIDE HOLDER ASSY | |
| 2- 8 | *5801344601 | HOLDER(L) | |
| 2- 9 | *5801502200 | PANEL, CASSETTE | |
| 2-10 | 5225025500 | LED, SLF601C(ORG) | |
| 2-11 | *5801344701 | HOLDER(R) | |
| 2-12 | *5801503000 | PAD(UL) | |
| 2-13 | *5801343600 | SPACER | |
| 2-14 | *5801345000 | HOLDER ASSY, CASSETTE | |
| 2-15 | *5800620500 | DAMPER | |
| 2-16 | 5801503700 | PANEL, TRIM | |
| 2-17 | *5801515800 | SPRING(L), HOLDER | |
| 2-18 | *5801515900 | SPRING(R), HOLDER | |
| 2-19 | *5200362100 | P.CONT PCB ASSY [112RMK2] | Refer to pages 40 & 45 |
| | *5200362110 | P.CONT PCB ASSY [122MK3] | Refer to pages 40 & 45 |
| | *5200362120 | P.CONT PCB ASSY [112MK2] | Refer to pages 40 & 45 |
| 2-20 | 5801412800 | KNOB(BL) | |
| 2-21 | 5801503600 | KNOB, PITCH CONTROL | |
| 2-22 | *5800472201 | ROD, EJECT | |
| 2-23 | 5801503800 | BUTTON, EJECT P-N15-A | |
| 2-24 | *5801502500 | LID, ESCUTCHEON | |
| 2-25 | *5200362200 | OP SW PCB ASSY | Refer to pages 42 & 46 |
| 2-26 | *5801500500 | BRACKET, PCB (OP) | |
| 2-27 | *5801598400 | SHEET, PROTECTION | |
| 2-28 | Vacant | | |
| 2-29 | 5801502600 | BUTTON(I), OPERATION | |
| 2-30 | *5801567600 | HOLDER, COUNTER PCB | |
| 2-31 | *5200362800 | JOINT C PCB ASSY | Refer to pages 38 & 45 |
| 2-32 | *5200362700 | COUNTER PCB ASSY [112RMK2] | Refer to pages 38 & 44 |
| | *5200362710 | COUNTER PCB ASSY [122MK3] | Refer to pages 38 & 44 |
| | *5200362720 | COUNTER PCB ASSY [112MK2] | Refer to pages 38 & 44 |
| 2-33 | 5801567700 | BUTTON, OPERATION [112RMK2] | |
| | 5801567800 | BUTTON, OPERATION [122MK3, 112MK2] | |
| 2-34 | 5801568300 | WINDOW | |
| 2-35 | *5200361500 | JACK PCB ASSY [112RMK2] | Refer to pages 39 & 45 |
| | *5200361510 | JACK PCB ASSY [122MK3] | Refer to pages 39 & 45 |
| | *5200361520 | JACK PCB ASSY [112MK2] | Refer to pages 39 & 45 |
| 2-36 | 5801575000 | KNOB, SLIDE | |
| 2-37 | *5801599900 | SPRING, EARTH | |
| 2-38 | *5801567400 | HOLDER, JACK PCB | |
| 2-39 | 5801583600 | KNOB, ROTARY | |
| 2-40 | *5200361400 | VR PCB ASSY [122MK3, 112RMK2] | Refer to pages 39 & 45 |
| | *5200361420 | VR PCB ASSY [112MK2] | Refer to pages 39 & 45 |
| 2-41 | *5801567500 | HOLDER, R VOL | |
| 2-42 | *5800933500 | GEAR B [122MK3] | |
| 2-43 | *5800933000 | GEAR A ASSY [122MK3] | |
| 2-44 | 5800933600 | BELT, TIMING [122MK3] | |

(Continued on page 26)

Parts marked with * require longer delivery time.

EXPLODED VIEW-3



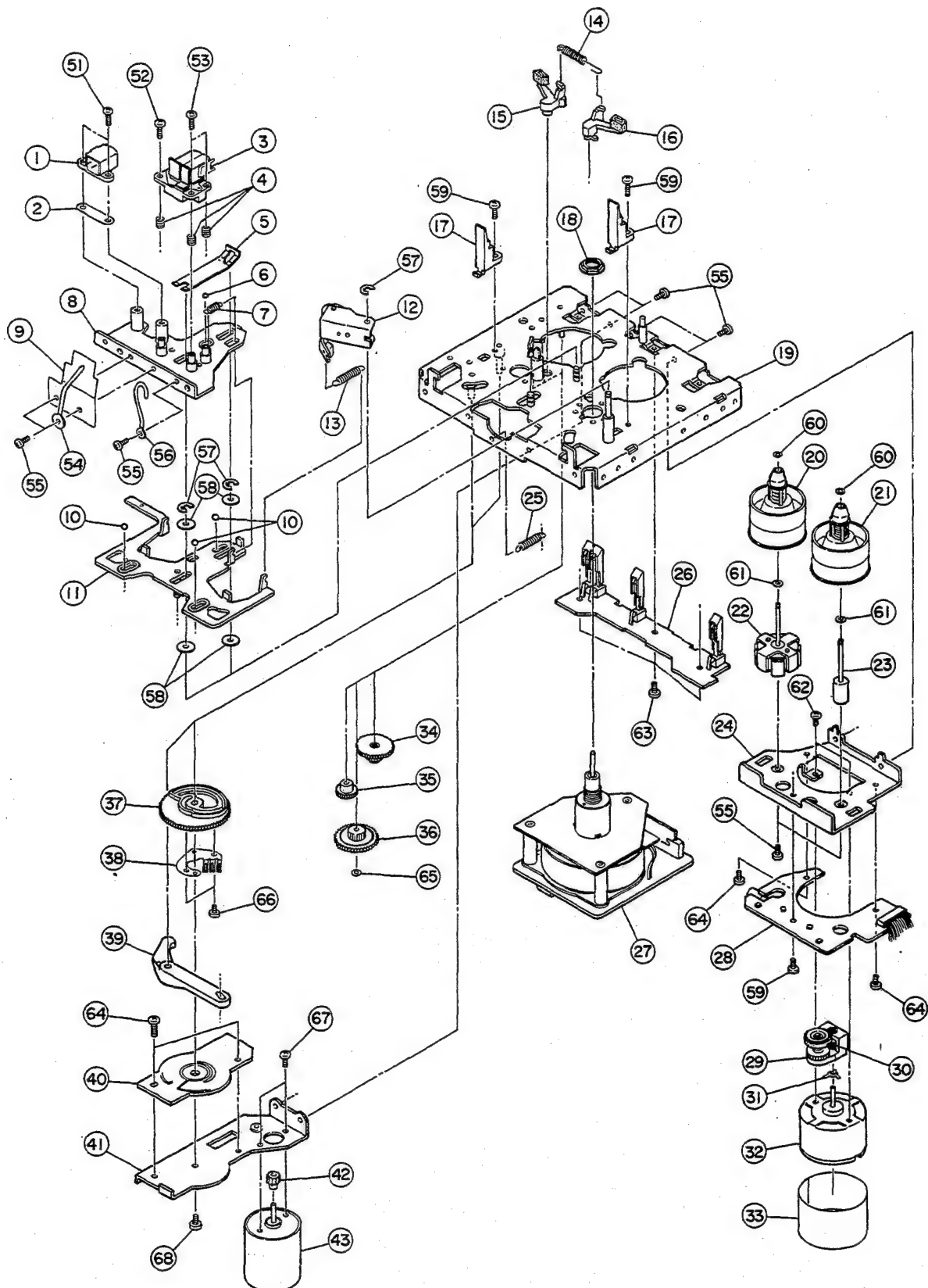
EXPLODED VIEW-3

| REF.NO. | PARTS NO. | DESCRIPTION | REMARKS |
|---------|---------------|-------------------------------------|------------------------|
| 3- 1 | 1678822807 | BUTTON,POWER | |
| 3- 2 | *5801500400 | ROD,JOINT | |
| 3- 3 | △ 5320064400 | TRANS.,POWER | |
| 3- 4 | *5200361700 | CONT M PCB ASSY [112RMK2 J,US,C] | Refer to pages 37 & 44 |
| | *5200361740 | CONT M PCB ASSY [112RMK2 E,UK,A] | Refer to pages 37 & 44 |
| | *5200361800 | CONT M PCB ASSY [122MK3 J,US,C] | Refer to pages 37 & 44 |
| | *5200361840 | CONT M PCB ASSY [122MK3 E,UK,A] | Refer to pages 37 & 44 |
| | *5200361900 | CONT M PCB ASSY [112MK2 J,US,C] | Refer to pages 37 & 44 |
| | *5200361940 | CONT M PCB ASSY [112MK2 E,UK,A] | Refer to pages 37 & 44 |
| 3- 5 | *5200362000 | CONT S PCB ASSY [112RMK2] | Refer to pages 41 & 46 |
| | *5200362010 | CONT S PCB ASSY [122MK3] | Refer to pages 41 & 46 |
| | *5200362020 | CONT S PCB ASSY [112MK2] | Refer to pages 41 & 46 |
| 3- 6 | △ 5350015200 | CORD,AC MP-220 [J] | |
| | △ 5350019500 | CORD,AC SPT-2 [US] | |
| | △ 5350019500 | CORD,AC [C] | |
| | △ 5350017500 | CORD,AC CLASS 2 [E] | |
| | △ 5128047000 | CORD,AC BS [UK] | |
| | △ 5350018200 | CORD,AC SAA [A] | |
| 3- 7 | △ *5317003400 | BUSHING,227I [EXCEPT C] | |
| | △ *5317005600 | BUSHING,2272 [C] | |
| 3- 8 | *5801537700 | PANEL,XLR A [112RMK2,112MK2] | |
| 3- 9 | *5801537900 | PANEL,XLR C [122MK3] | |
| 3-10 | *5200363000 | BAL AMP PCB ASSY [122MK3] | Refer to pages 41 & 46 |
| 3-11 | *5801537500 | PANEL A,REAR | |
| 3-12 | *5801349500 | HOLDER,TRANS. | |
| 3-13 | *5801502100 | BASE,MECHA. | |
| 3-14 | | CHASSIS,MAIN | |
| 3-15 | *5200362600 | METER AMP PCB ASSY [112RMK2,112MK2] | Refer to pages 40 & 45 |
| | *5200362610 | METER AMP PCB ASSY [122MK3] | Refer to pages 40 & 45 |
| 3-16 | *5200361300 | MAIN PCB ASSY [112RMK2] | Refer to pages 33 & 43 |
| | *5200361310 | MAIN PCB ASSY [122MK3] | Refer to pages 33 & 43 |
| | *5200361320 | MAIN PCB ASSY [112MK2] | Refer to pages 35 & 43 |
| 3-17 | *5200362500 | JOINT M PCB ASSY | Refer to pages 40 & 46 |
| 3-18 | *5200362400 | METER PCB ASSY | Refer to pages 41 & 46 |
| 3-19 | *5801567300 | HOLDER,METER | |
| 3-20 | 5296006101 | METER,VU | |
| 3-21 | *5801511400 | SPRING,EJECT ARM | |
| 3-22 | *5801501600 | ARM,EJECT | |
| 3-23 | *5801567200 | CHASSIS,FRONT | |
| 3-24 | *5801499400 | CHASSIS,SIDE | |
| 3-31 | *5783034021 | SCREW,BIND S-TETE M4X21 | |
| 3-32 | Vacant | | |
| 3-33 | *5783613008 | SCREW,B. C-TITE M3X8(BLK NI) | |
| 3-34 | *5783773006 | SCREW,BIND B-TITE M3X6(BLK ZN) | |
| 3-35 | *5783543008 | SCREW,BIND P-TITE M3X8(BLK NI) | |
| 3-36 | *5730017600 | SCREW,BIND BR-TITE M3X6 | |
| 3-37 | *5787060700 | SPACER,PUSH PS-7 A=11.11 | |
| 3-38 | *5786713400 | CLIP,HARNESS 3.2X6.0X47 | |
| 3-39 | *5783073008 | SCREW,PAN CAP S-TITE M3X8 | |
| 3-40 | *5730041500 | SUPPORT,PCB MPS-10-0 | |
| 3-41 | *5783034006 | SCREW,BIND S-TITE M4X6 [C] | |
| 3-42 | *5786700600 | EARTH RAG,B-6 4.2 | |
| 3-43 | *5785124000 | WASHER,LOCK 4.0(OUTER) [C] | |

[US]:U.S.A. [E]:EUROPE [UK]:U.K. [C]:CANADA [J]:JAPAN
[A]:AUSTRALIA

Parts marked with * require longer delivery time.

EXPLODED VIEW-4 (122MKⅢ)



122MKIII/112RMKII/112MKII

EXPLODED VIEW-4 [122MKIII]

| REF.NO. | PARTS NO. | DESCRIPTION | REMARKS |
|---------|-------------|----------------------------------|------------------------|
| 4-1 | 5378906900 | HEAD, ERASE LE15A | |
| 4-2 | *5801357800 | SPACER, EH 0.05 | |
| | *5800556200 | SPACER, EH 0.1 | |
| | *5801197800 | SPACER, EH 0.2 | |
| 4-3 | 5801585400 | R/P HEAD ASSY | |
| 4-4 | *5800931300 | SPRING, HEAD | |
| 4-5 | *5801481400 | SPRING, PRESSURE | |
| 4-6 | 5540055000 | STEEL BALL, 2.0 | |
| 4-7 | *5801005700 | SPRING, HEAD BASE | |
| 4-8 | *5801578500 | HEAD BASE DD ASSY | |
| 4-9 | *5801597300 | SHEET, HEAD SHIELD | |
| 4-10 | 5540056000 | STEEL BALL, 3.0 | |
| 4-11 | *5801475000 | SLIDER ASSY | |
| 4-12 | 5800955400 | PINCH ROLLER ARM ASSY(R) | |
| 4-13 | *5800955800 | SPRING, PINCH ROLLER(R) | |
| 4-14 | *5801475700 | SPRING, BRAKE | |
| 4-15 | 5801475300 | BRAKE ARM(L) ASSY | |
| 4-16 | 5801475500 | BRAKE ARM(R) ASSY | |
| 4-17 | *5800117400 | GUIDE, CASSETTE | |
| 4-18 | 5730029100 | NUT, FLANGE M9X0.75X2.5 | |
| 4-19 | | MECHA. CHASSIS DD ASSY | |
| 4-20 | 5801578200 | REEL TABLE H ASSY | |
| 4-21 | 5801579500 | REEL TABLE HD ASSY | |
| 4-22 | 5801577700 | COIL SHAFT ASSY H | |
| 4-23 | 5801577400 | REEL SHAFT BASE ASSY | |
| 4-24 | *5801576000 | BRACKET, REEL | |
| 4-25 | *5801476200 | SPRING, BASE ARM | |
| 4-26 | *5200363510 | SW(E) PCB ASSY | Refer to pages 42 & 46 |
| 4-27 | 5370012100 | MOTOR, DC CAPSTAN DD DL-528-001A | |
| 4-28 | *5200363310 | SENSOR(R) PCB ASSY | Refer to pages 42 & 47 |
| 4-29 | 5801473002 | DRIVING PULLEY ASSY | |
| 4-30 | 5801474500 | GEAR, REEL MOTOR | |
| 4-31 | 5801494600 | SPRING, THRUST | |
| 4-32 | 5370002502 | REEL MOTOR | |
| 4-33 | *5800235900 | PLATE, SHIELD | |
| 4-34 | 5801474300 | GEAR C | |
| 4-35 | 5801474101 | GEAR A | |
| 4-36 | 5801474200 | GEAR B | |
| 4-37 | 5801474600 | CAM, CONTROL | |
| 4-38 | 5801474700 | PLATE, CONTACT | |
| 4-39 | *5801474800 | ARM, BASE | |
| 4-40 | 5210334000 | CAM PCB | |
| 4-41 | *5801474000 | BRACKET, MOTOR | |
| 4-42 | 5801474400 | GEAR, MOTOR | |
| 4-43 | 5370010300 | MOTOR, DC MXN-13FB12F | |

Parts marked with * require longer delivery time.

EXPLODED VIEW-4 [122MKIII]

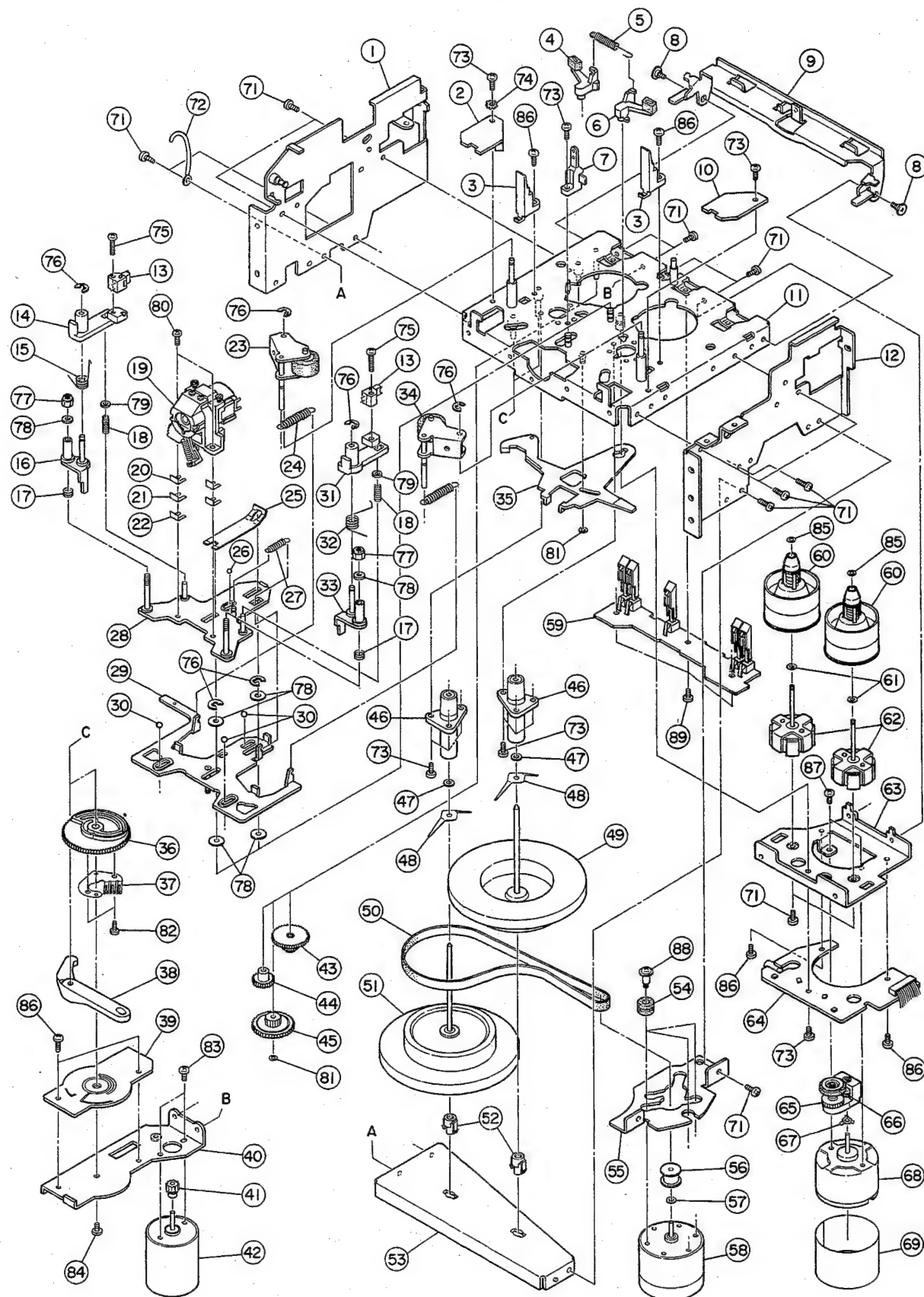
| REF.NO. | PARTS NO. | DESCRIPTION | REMARKS |
|---------|-------------|----------------------------------|---------|
| 4-51 | *5780012006 | SCREW, BIND M2X6(NI) | |
| 4-52 | *5730029400 | SCREW, PWA2*8FN1 | |
| 4-53 | *5780012008 | SCREW, BIND M2X8(NI) | |
| 4-54 | *5786713300 | CLIP, HARNESS 3.2X9.1X29.3 | |
| 4-55 | *5783002605 | SCREW, PAN S-TITE M2.6X5 | |
| 4-56 | *5786713400 | CLIP, HARNESS 3.2X6.0X47 | |
| 4-57 | *5786002000 | E-RING, E-2 | |
| 4-58 | *5785313000 | WASHER, POLYS. 3X6X0.5T | |
| 4-59 | *5783032606 | SCREW, BIND S-TITE M2.6X6 | |
| 4-60 | *5785331200 | WASHER, POLYS. 1.2X3.0X0.5T(CUT) | |
| 4-61 | *5800539800 | WASHER, TEFLON 1.7X4X0.3T | |
| 4-62 | *5780002603 | SCREW, BIND M2.6X3 | |
| 4-63 | *5783032004 | SCREW, BIND S-TITE M2X4 | |
| 4-64 | *5783032605 | SCREW, BIND S-TITE M2.6X5 | |
| 4-65 | *5785331500 | WASHER, POLYS. 1.5X4X0.5T(CUT) | |
| 4-66 | *5781112004 | SCREW, BIND TAPP. #2 M2X4 | |
| 4-67 | *5780003003 | SCREW, BIND M3X3 | |
| 4-68 | *5780002004 | SCREW, BIND M2X4 | |

EXPLODED VIEW-2 (Continued from page 21)

| REF.NO. | PARTS NO. | DESCRIPTION | REMARKS |
|---------|-------------|-------------------------------------|---------|
| 2-51 | *5730017600 | SCREW, BIND BR-TITE M3X6 | |
| 2-52 | *5786003000 | E-RING, E-3 | |
| 2-53 | *5783002605 | SCREW, PAN S-TITE M2.6X5 | |
| 2-54 | *5786713400 | CLIP, HARNESS 3.2X6.0X47 | |
| 2-55 | *5783830104 | SCREW, PAN S-TITE M2.6X4(BLK ZN) | |
| 2-56 | *5781162606 | SCREW, BIND TAPP. #2 M2.6X6(BLK NI) | |
| 2-57 | *5783032004 | SCREW, BIND S-TITE M2X4 | |
| 2-58 | 5781713003 | SCREW, CAP M3X3(BLK NI) | |
| 2-59 | *5783602608 | SCREW, BIND P-TITE M2.6X8 | |
| 2-60 | *5786002500 | E-RING, E-2.5 | |
| 2-61 | *5780003004 | SCREW, BIND HEAD M3X4 | |
| 2-62 | *5783543008 | SCREW, BIND P-TITE M3X8(BLK NI) | |
| 2-63 | *5780053005 | SCREW, BIND SEMS-F M3X5 | |
| 2-64 | *5783640208 | SCREW, PAN P-TITE 2X8 | |

Parts marked with * require longer delivery time.

EXPLODED VIEW-5 (112RMKII)



EXPLODED VIEW-5 [112RMKII]

| REF.NO. | PARTS NO. | DESCRIPTION | REMARKS |
|---------|-------------|------------------------------|------------------------|
| 5-1 | *5801510000 | SIDE CHASSIS(L) ASSY | Refer to pages 42 & 47 |
| 5-2 | *5200363200 | SW(R) PCB ASSY | |
| 5-3 | *5800117400 | GUIDE, CASSETTE | |
| 5-4 | 5801475300 | BRAKE ARM(L) ASSY | |
| 5-5 | *5801475700 | SPRING, BRAKE | |
| 5-6 | 5801475500 | BRAKE ARM(R) ASSY | Refer to page 42 |
| 5-7 | 5228009900 | PHOTO SENSOR, 59027-4 | |
| 5-8 | *5801511200 | SCREW, STEP | |
| 5-9 | *5801501900 | ARM, SWITCH | |
| 5-10 | *5210363400 | JOINT(R) PCB | |
| 5-11 | | MECHA CHASSIS R ASSY | |
| 5-12 | *5801502400 | CHASSIS(R), SIDE | |
| 5-13 | 5378906500 | HEAD, ERASE | |
| 5-14 | *5801343400 | BASE(L), EH | |
| 5-15 | *5800615501 | SPRING L, ERASE HEAD ARM | |
| 5-16 | *5800618700 | ERASE HEAD ARM L SUB ASSY | |
| 5-17 | *5800615300 | SPRING, ERASE HEAD HEIGHT | |
| 5-18 | *5800615700 | SPRING, ERASE HEAD ARM GUIDE | |
| 5-19 | 5801583900 | R/P HEAD ASSY H | |
| 5-20 | 5801357700 | SPACER, R/P HEAD 0.05 | |
| 5-21 | 5800595000 | SPACER, A 0.1MM | |
| 5-22 | 5800595100 | SPACER, B 0.2MM | |
| 5-23 | 5801577300 | PINCH ARM L ASSY | |
| 5-24 | *5801576900 | SPRING, PINCH ARM | |
| 5-25 | *5801481400 | SPRING, PRESSURE | |
| 5-26 | 5540055000 | STEEL BALL, 2.0 | |
| 5-27 | *5801005700 | SPRING, HEAD BASE | |
| 5-28 | *5800618101 | HEAD BASE ASSY | |
| 5-29 | *5801475000 | SLIDER ASSY | |
| 5-30 | 5540056000 | STEEL BALL, 3.0 | |
| 5-31 | *5801343500 | BASE(R), EH | |
| 5-32 | *5800615601 | SPRING R, ERASE HEAD ARM | |
| 5-33 | *5800618800 | ERASE HEAD ARM R SUB ASSY | |
| 5-34 | 5801577200 | PINCH ARM R ASSY | |
| 5-35 | *5801575700 | DIRECTION LEVER ASSY | |
| 5-36 | 5801474600 | CAM, CONTROL | |
| 5-37 | *5801474700 | PLATE, CONTACT | |
| 5-38 | *5801474800 | ARM, BASE | |
| 5-39 | 5210334000 | CAM PCB | |
| 5-40 | *5801474000 | BRACKET, MOTOR | |
| 5-41 | 5801474400 | GEAR, MOTOR | |
| 5-42 | 5370010300 | MOTOR, DC MXN-13FB12F | |
| 5-43 | 5801474300 | GEAR C | |
| 5-44 | 5801474101 | GEAR A | |
| 5-45 | 5801474200 | GEAR B | |
| 5-46 | 5800732100 | HOLDER ASSY, METAL | |
| 5-47 | *5800729400 | WASHER(A), TEFLON | |
| 5-48 | 5801197900 | SPRING(U), THRUST | |
| 5-49 | 5800732300 | CAPSTAN ASSY(R) | |
| 5-50 | 5534810000 | BELT, CAPSTAN | |
| 5-51 | 5800732200 | CAPSTAN ASSY(L) | |
| 5-52 | *5801198100 | SUPPORT(F), THRUST | |
| 5-53 | 5801576300 | PLATE, FW SUPPORT | |
| 5-54 | 5534537001 | CUSHION, MOTOR | |
| 5-55 | *5801576200 | BRACKET, CAPSTAN MOTOR | |

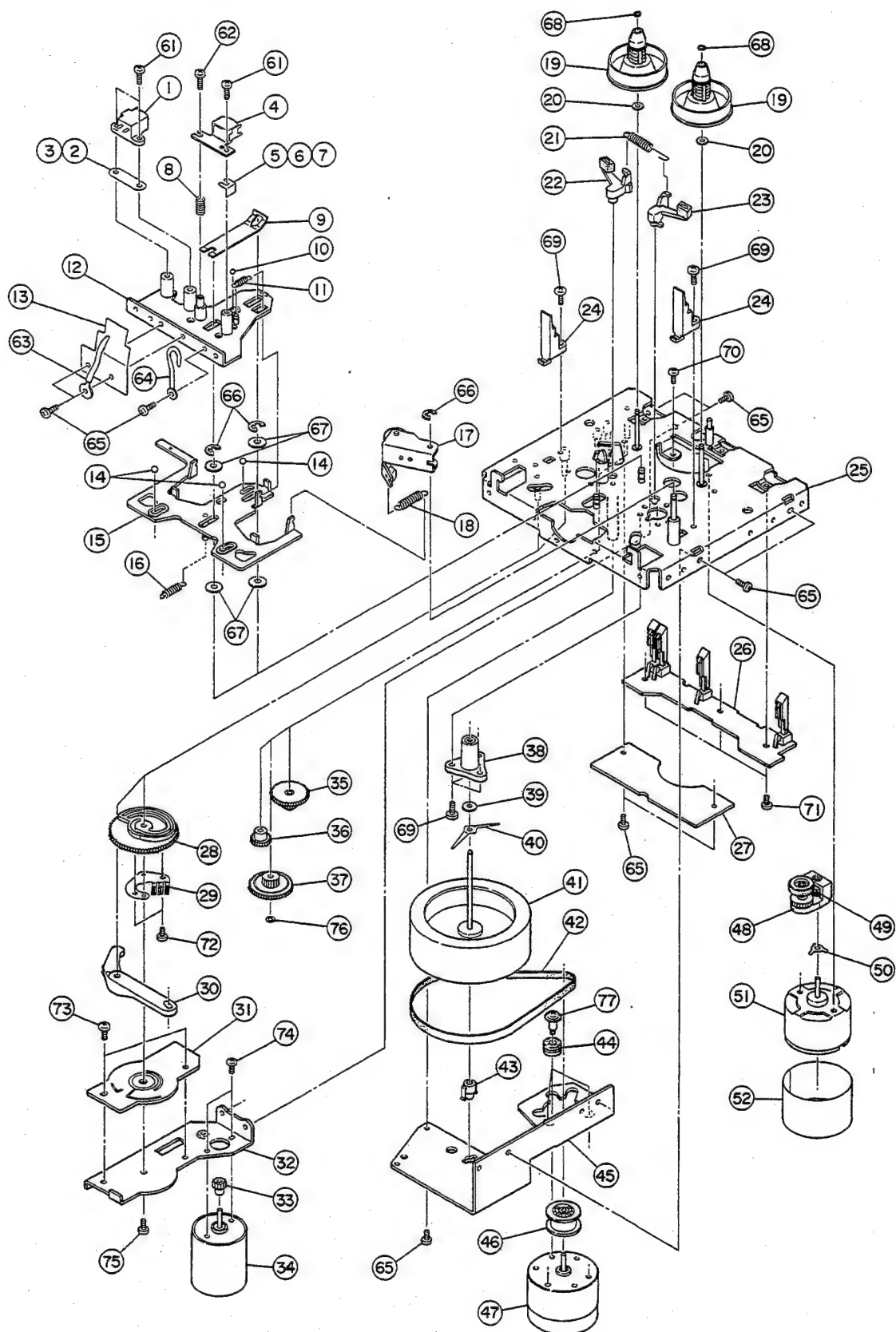
Parts marked with * require longer delivery time.

EXPLODED VIEW-5 [112RMKII]

| REF.NO. | PARTS NO. | DESCRIPTION | REMARKS |
|---------|--------------|---------------------------------|------------------------|
| 5-56 | 5801006500 | PULLEY,CM | Refer to pages 42 & 46 |
| 5-57 | 5801008000 | WASHER,OIL | |
| 5-58 | 5370009800 | MOTOR,CAPSTAN DC EG-530KD-2F | |
| 5-59 | *5200363500 | SW(E) PCB ASSY | |
| 5-60 | 5801578200 | REEL TABLE H ASSY | |
| 5-61 | 5800539800 | WASHER,TEFLON 1.7X4X0.3T | Refer to pages 42 & 47 |
| 5-62 | 5801577700 | COIL SHAFT ASSY H | |
| 5-63 | *5801576000 | BRACKET,REEL | |
| 5-64 | *5200363300 | SENSOR(R) PCB ASSY | |
| 5-65 | 5801473002 | DRIVING PULLEY ASSY | |
| 5-66 | 5801474500 | GEAR,REEL MOTOR | |
| 5-67 | 5801494600 | SPRING,THRUST | |
| 5-68 | 5370002502 | MOTOR,DC REEL | |
| 5-69 | *5800235900 | PLATE,SHIELD | |
| 5-71 | *5783002605 | SCREW,PAN S-TITE M2.6X5 | |
| 5-72 | *5786713400 | CLIP,HARNESS 3.2X6.0X47 | |
| 5-73 | *5783032606 | SCREW,BIND S-TITE M2.6X6 | |
| 5-74 | *5785122600 | WASHER,LOCK 2.6 | |
| 5-75 | *5780012008 | SCREWR,BIND M2X8(NI) | |
| 5-76 | *5786002000 | E-RING,E-2 | |
| 5-77 | *5781952600 | NUT,NYLON M2.6 | |
| 5-78 | *5785313000 | WASHER,POLYS. 3X6X0.5T | |
| 5-79 | *5785302400 | WASHER,POLYS. 2.1X5X0.25T | |
| 5-80 | *5780002006 | SCREW,BIND M2X6 | |
| 5-81 | *5785331500 | WASHER,POLYS. 1.5X4X0.5T(CUT) | |
| 5-82 | *57811112004 | SCREW,BIND TAPP. #2 M2X4 | |
| 5-83 | *5780003003 | SCREW,BIND M3X3 | |
| 5-84 | *5780002004 | SCREW,BIND M2X4 | |
| 5-85 | *5785331200 | WASHER,POLYS. 1.2X3.0X0.5T(CUT) | |
| 5-86 | *5783032605 | SCREW,BIND S-TITE M2.6X5 | |
| 5-87 | *5780002603 | SCREW,BIND M2.6X3 | |
| 5-88 | 5730033100 | SCREW,SHOLDEK M2.6X5-2 | |
| 5-89 | *5783032004 | SCREW,BIND S-TITE M2X4 | |

Parts marked with * require longer delivery time.

EXPLODED VIEW-6 (112MKⅡ)



122MKIII/112RMKII/112MKII

EXPLODED VIEW-6 [112MKII]

| REF.NO. | PARTS NO. | DESCRIPTION | REMARKS |
|---------|-------------|------------------------------|------------------------|
| 6-1 | 5378906900 | HEAD,ERASE LE15A | |
| 6-2 | *5801197800 | SPACER,EH 0.2 | |
| 6-3 | *5801357800 | SPACER,EH 0.05 | |
| | *5800556200 | SPACER,EH 0.1 | |
| 6-4 | 5378907100 | HEAD,R/P SS15R | |
| 6-5 | 5801357700 | SPACER,R/P HEAD 0.05 | |
| 6-6 | 5800595000 | SPACER,A 0.1MM | |
| 6-7 | 5800595100 | SPACER,B 0.2MM | |
| 6-8 | *5800931300 | SPRING,HEAD | |
| 6-9 | *5801481400 | SPRING,PRESSURE | |
| 6-10 | 5540055000 | STEEL BALL,2.0 | |
| 6-11 | *5801005700 | SPRING,HEAD BASE | |
| 6-12 | *5801472400 | HEAD BASE(4) ASSY | |
| 6-13 | *5801597300 | SHEET,HEAD SHIELD | |
| 6-14 | 5540056000 | STEEL BALL,3.0 | |
| 6-15 | *5801475000 | SLIDER ASSY | |
| 6-16 | *5801476200 | SPRING,BASE ARM | |
| 6-17 | 5800955400 | PINCH ROLLER ARM ASSY(R) | |
| 6-18 | *5800955800 | SPRING,PINCH ROLLER(R) | |
| 6-19 | 5801480700 | REEL TABLE S ASSY | |
| 6-20 | 5800539800 | WASHER,TEFLON 1.7X4X0.3T | |
| 6-21 | *5801475700 | SPRING,BRAKE | |
| 6-22 | 5801475300 | BRAKE ARM(L) ASSY | |
| 6-23 | 5801475500 | BRAKE ARM(R) ASSY | |
| 6-24 | *5800117400 | GUIDE,CASSETTE | |
| 6-25 | | MECHA. CHASSIS S4 ASSY | |
| 6-26 | *5200333900 | SW PCB ASSY | Refer to pages 42 & 47 |
| 6-27 | *5200343210 | SENSOR PCB ASSY | Refer to pages 42 & 47 |
| 6-28 | 5801474600 | CAM,CONTROL | |
| 6-29 | 5801474700 | PLATE,CONTACT | |
| 6-30 | *5801474800 | ARM,BASE | |
| 6-31 | 5210334000 | CAM PCB | |
| 6-32 | *5801474000 | BRACKET,MOTOR | |
| 6-33 | 5801474400 | GEAR,MOTOR | |
| 6-34 | 5370010300 | MOTOR,DC MXN-13FB12F | |
| 6-35 | 5801474300 | GEAR C | |
| 6-36 | 5801474101 | GEAR A | |
| 6-37 | 5801474200 | GEAR B | |
| 6-38 | 5800106200 | HOLDER ASSY,METAL | |
| 6-39 | 5800729400 | WASHER(A),TEFLON | |
| 6-40 | 5801197900 | SPRING,THRUST (U) | |
| 6-41 | 5800735101 | CAPSTAN ASSY | |
| 6-42 | 5800735500 | BELT,CAPSTAN | |
| 6-43 | 5801198100 | SUPPRT(F),THRUST | |
| 6-44 | 5534537001 | CUSHION,MOTOR | |
| 6-45 | *5801198001 | PLATE(P),FW SUPPORT | |
| 6-46 | 5801584000 | PULLY,CAPSTAN 8.35 | |
| 6-47 | 5370008700 | MOTOR,CAPSTAN DC EG-530KD-2B | |
| 6-48 | 5801473002 | DRIVING PULLY ASSY | |
| 6-49 | 5801474500 | GEAR,REEL MOTOR | |
| 6-50 | 5801494600 | SPRING,THRUST | |
| 6-51 | 5370002502 | MOTOR,DC REEL | |
| 6-52 | *5800235900 | PLATE,SHIELD | |

Parts marked with * require longer delivery time.

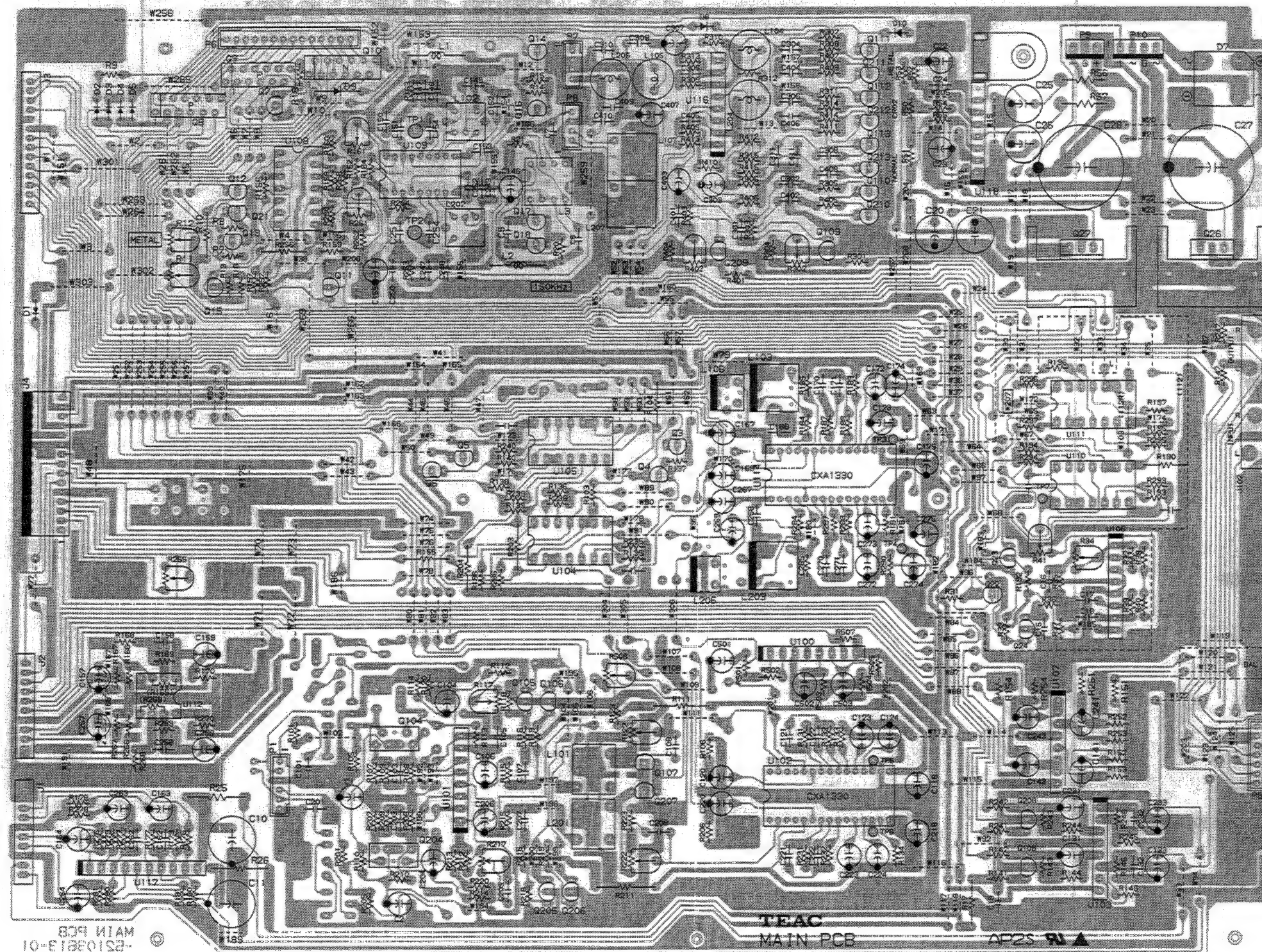
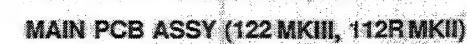
EXPLODED VIEW-6 [112MKII]

| REF.NO. | PARTS NO. | DESCRIPTION | REMARKS |
|---------|-------------|---------------------------------|---------|
| 6-61 | *5780012006 | SCREW,BIND M2X6(NI) | |
| 6-62 | *5730029400 | SCREW,PWA2*8FNI | |
| 6-63 | *5786713300 | CLIP,HARNESS 3.2X9.1X29.3 | |
| 6-64 | *5786713400 | CLIP,HARNESS 3.2X6.0X47 | |
| 6-65 | *5783002605 | SCREW,PAN S-TITE M2.6X5 | |
| 6-66 | *5786002000 | E-RING,E-2 | |
| 6-67 | *5785313000 | WASHER,POLYS. 3X6X0.5T | |
| 6-68 | *5785331200 | WASHER,POLYS. 1.2X3.0X0.5T(CUT) | |
| 6-69 | *5783032606 | SCREW,BIND S-TITE M2.6X6 | |
| 6-70 | *5780002603 | SCREW,BIND M2.6X3 | |
| 6-71 | *5783032004 | SCREW,BIND S-TITE M2X4 | |
| 6-72 | *5781112004 | SCREW,BIND TAPP. #2 M2X4 | |
| 6-73 | *5783032605 | SCREW,BIND S-TITE M2.6X5 | |
| 6-74 | *5780003003 | SCREW,BIND M3X3 | |
| 6-75 | *5780002004 | SCREW,BIND M2X4 | |
| 6-76 | *5785331500 | WASHER,POLYS. 1.5X4X0.5T(CUT) | |
| 6-77 | 5730033100 | SCREW,SHOLDEK M2.6X5-2 | |

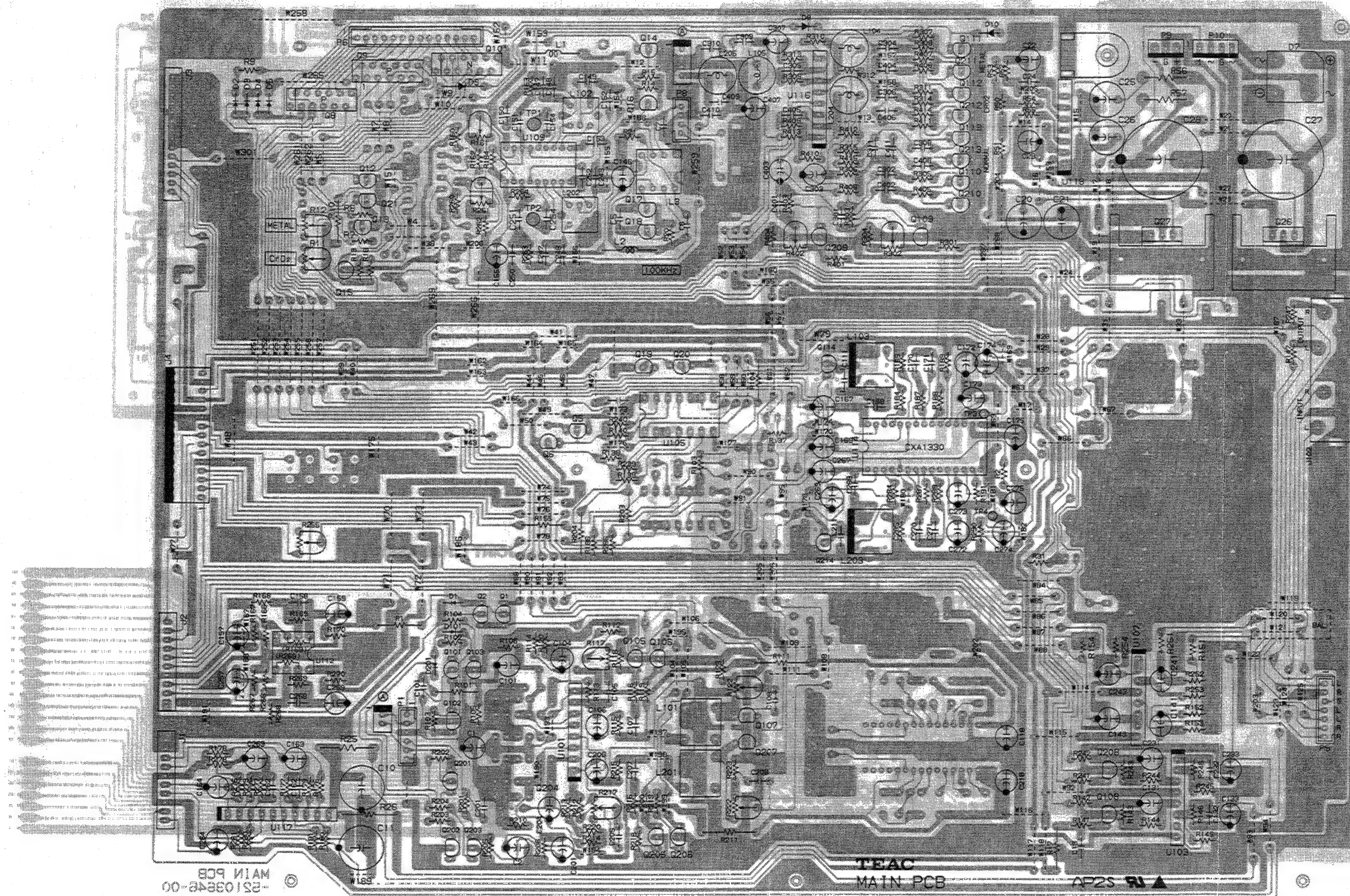
Parts marked with * require longer delivery time.

5. PC BOARDS AND PARTS LISTS

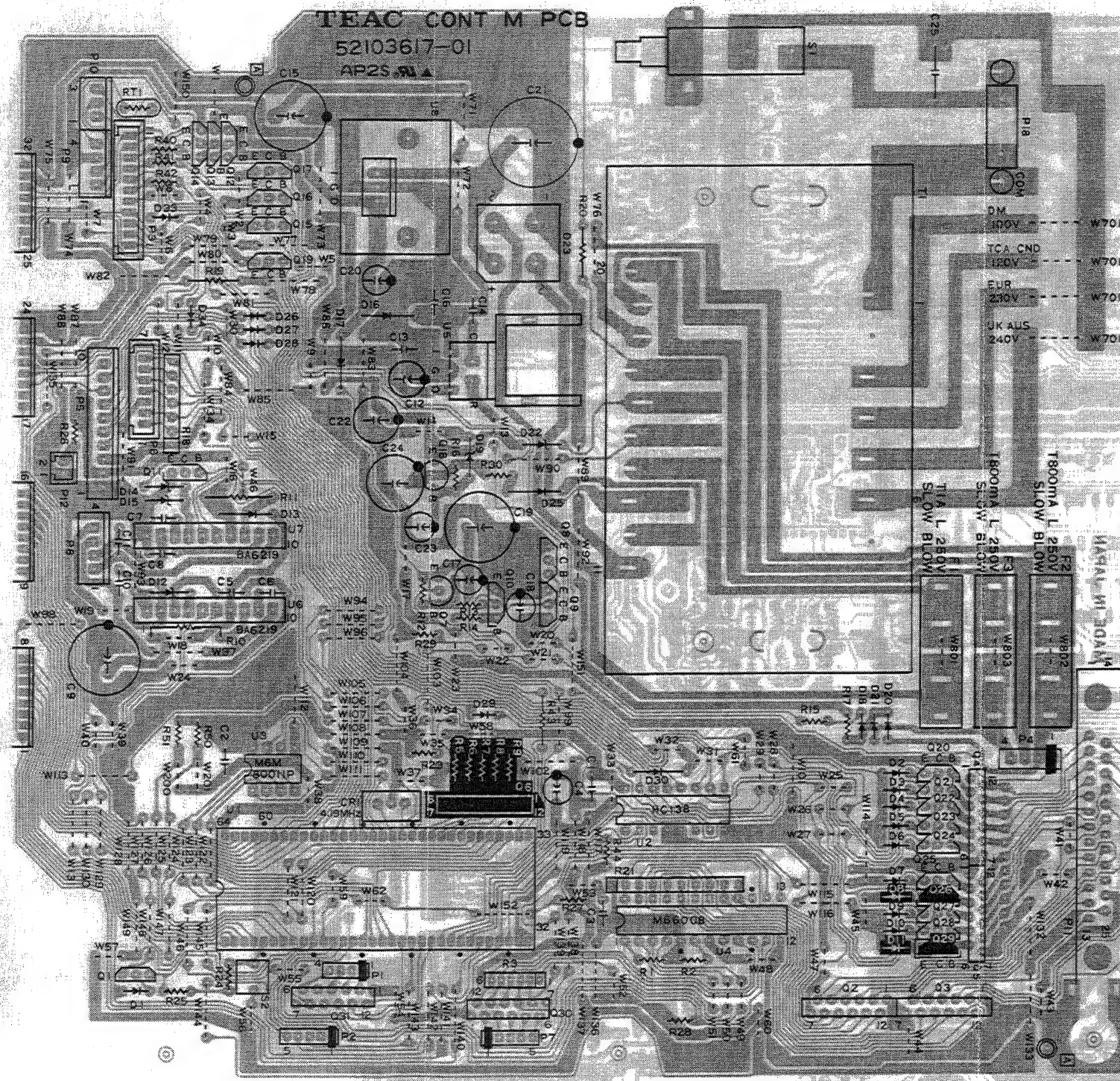
基板図とパーツリスト

[illegible]

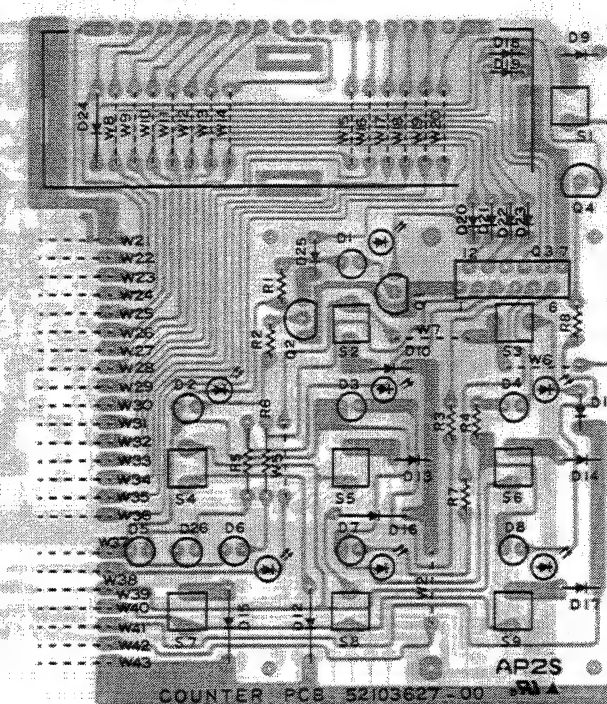
MAIN PCB ASSY (112 MKII)



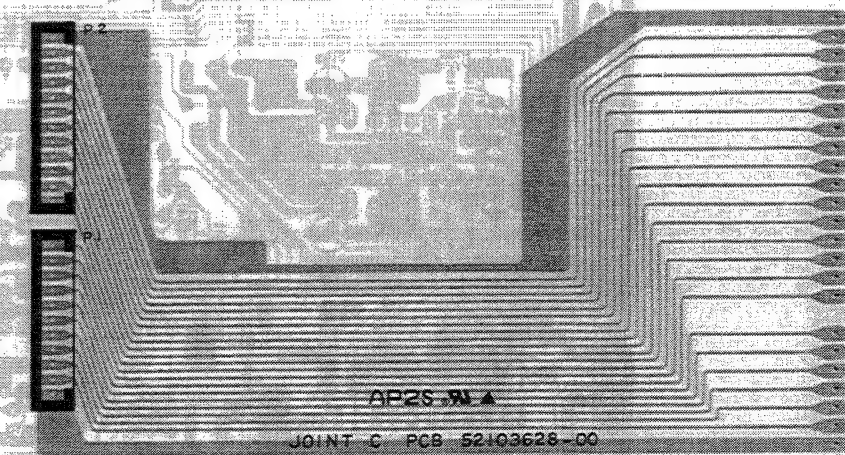
CONT M PCB ASSY



COUNTER PCB ASSY

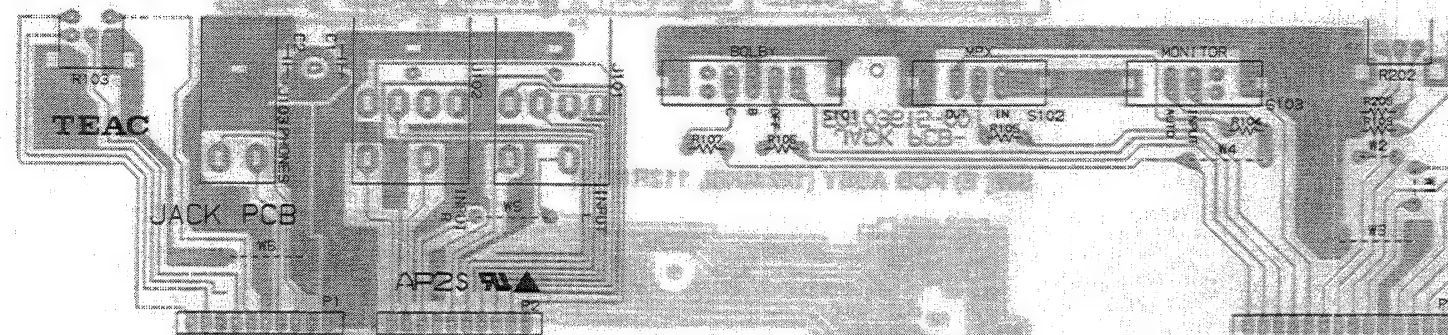


JOINT C PCB ASSY

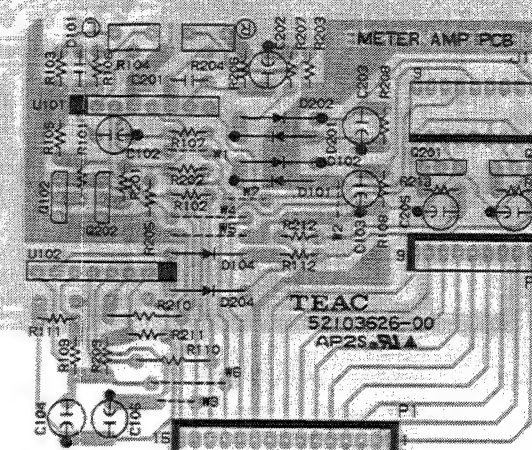


II 100811 100811 100811 100811

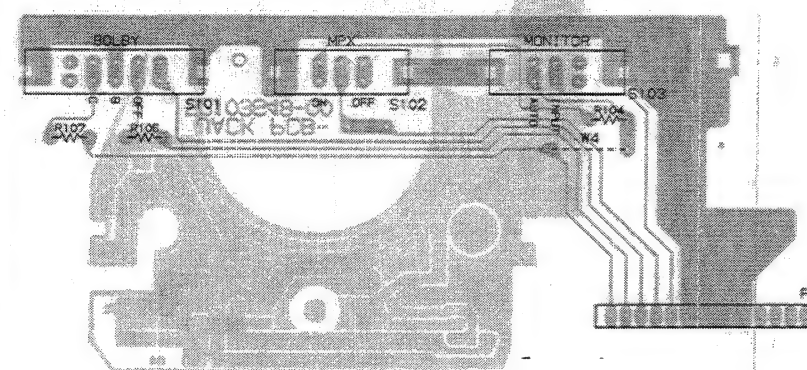
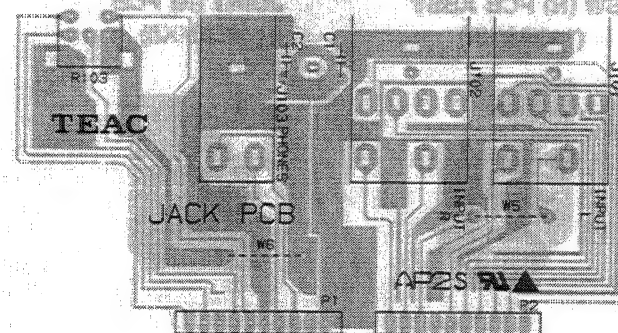
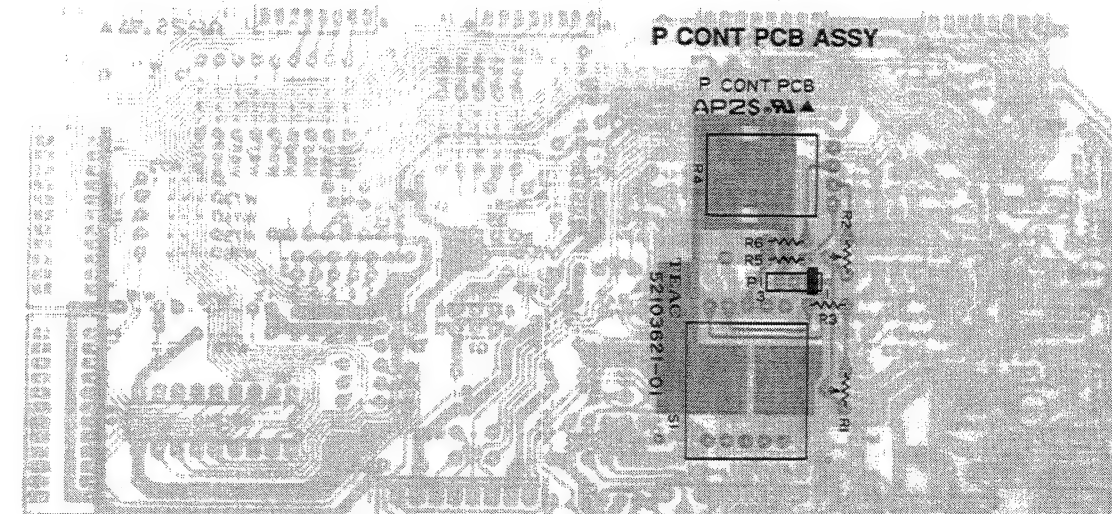
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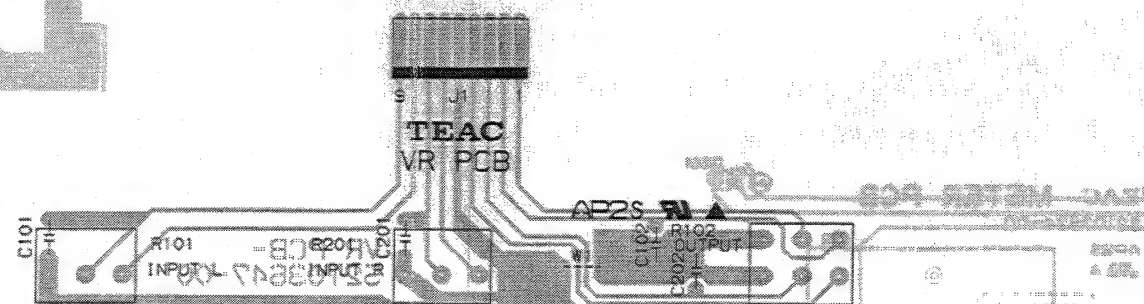
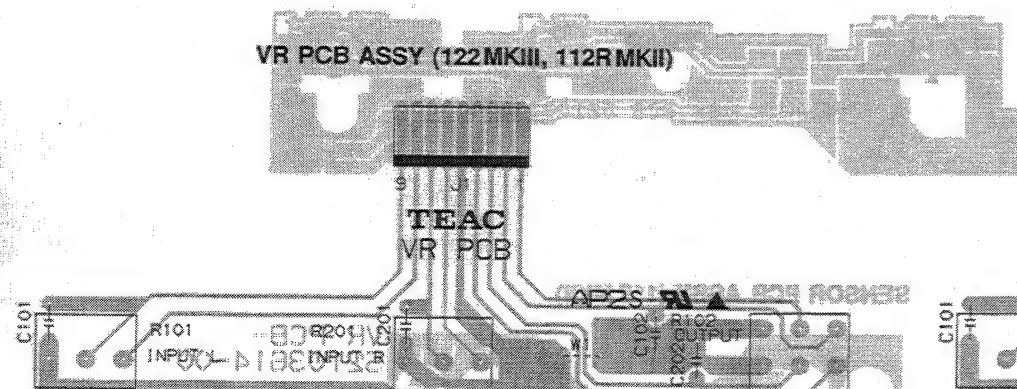
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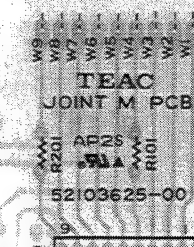
OLYMPIA PETT, BIRMINGHAM PETT, YOUNG, BERNARD ROBERTS

**YAKA MOTO O TUNGO**

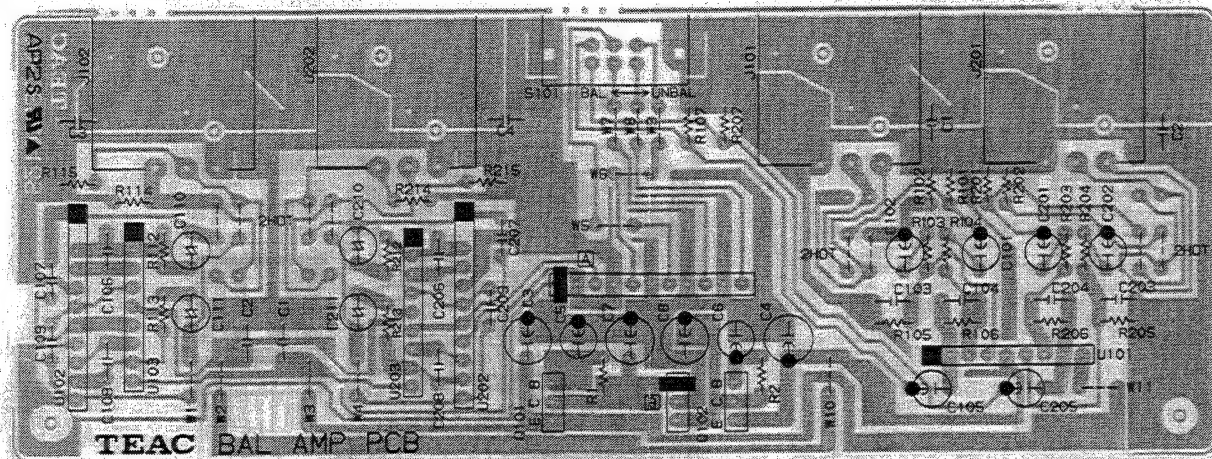
(USAMRIID) Y82A 037 W62



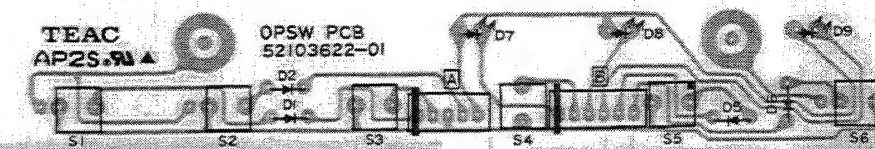
1 1 1 1 1 1 1 1 1



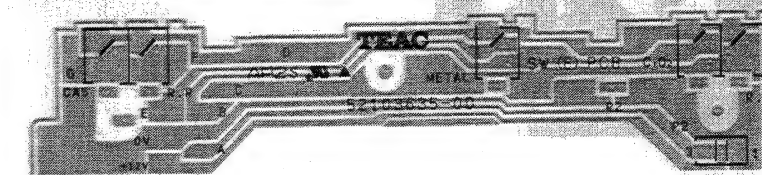
BAL AMP PCB ASSY (122 MKIII)



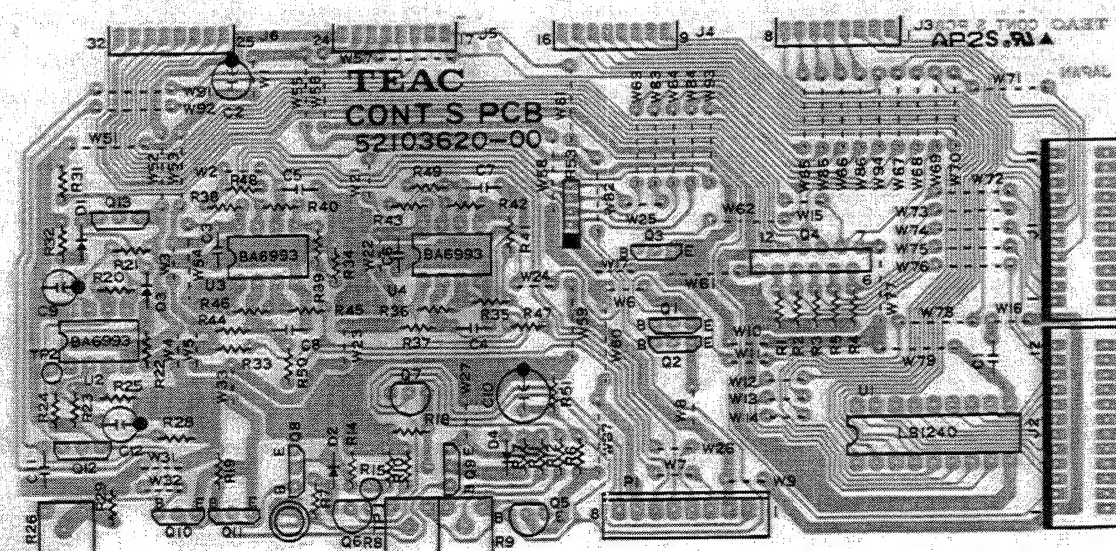
OPSW PCB ASSY



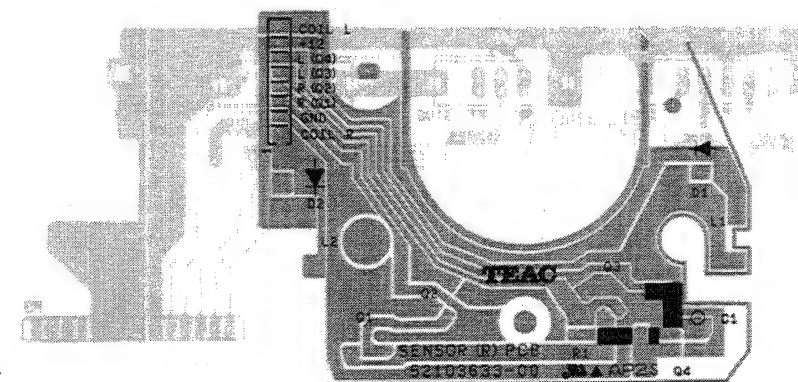
SW (E) PCB ASSY (122 MKIII, 112R MKII)



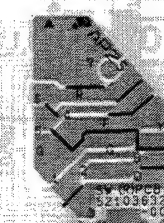
CONT S PCB ASSY



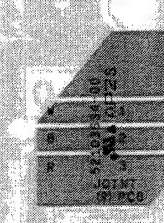
SENSOR (R) PCB ASSY (122 MKIII, 112R MKII)



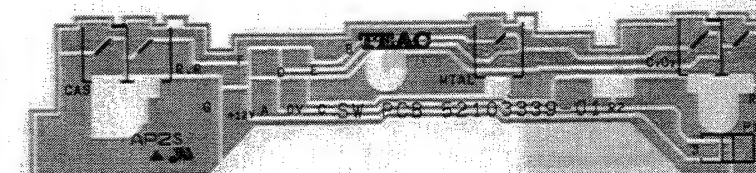
SW (R) PCB ASSY (112R MKII)



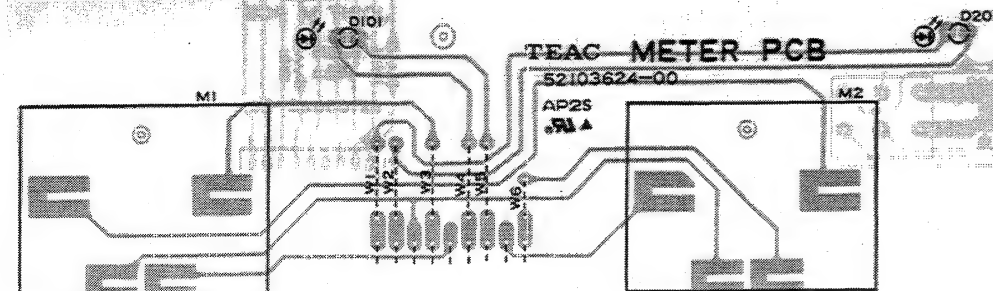
JOINT (R) PCB (112R MKII)



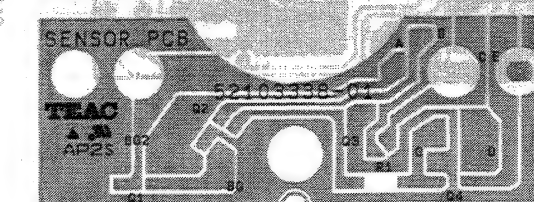
SW PCB ASSY (112 MKII)



METER PCB ASSY



SENSOR PCB ASSY (112 MKII)



122MKIII/112RMKII/112MKII

MAIN PCB ASSY

| REF.NO. | PARTS NO. | DESCRIPTION |
|-----------|--------------|---|
| | *5200361300 | MAIN PCB ASSY [112RMK2] |
| | *5200361310 | MAIN PCB ASSY [112MK3] |
| | *5200361320 | MAIN PCB ASSY [112MK2] |
| | *5210361302 | MAIN PCB [112MK3, 112RMK2] |
| | *5210364601 | MAIN PCB [112MK2] |
| | *5730039200 | HEAT SINK, OSH-2425-SPL |
| | *5555590000 | PLATE A, EARTH |
| | *5780003008 | SCREW, BIND M3X8 |
| DI | 5224015020 | DIODE, ISS133T-77 [112MK3, 112MK2] |
| D2-5 | 5224015020 | DIODE, ISS133T-77 |
| D7 | △ 5228010800 | SILICON STACK, S2VB10 |
| D8 | 5224015020 | DIODE, ISS133T-77 |
| D9 | 5224012920 | DIODE, IS2473 |
| D10 | 5224015020 | DIODE, ISS133T-77 |
| D101, 201 | 5224015020 | DIODE, ISS133T-77 [112MK2] |
| J1, 2 | 5336399400 | CONNECTOR, 10R-FJ |
| J3 | 5336399800 | CONNECTOR, 14R-FJ |
| J4 | 5336282500 | SOCKET, CON. 1L-SDD-15S-S2L2 |
| J102 | 5330509500 | JACK, PIN 4P YKC21-0062 |
| L1, 2 | 5286031000 | COIL, CHOKE 220UH LAL04NA |
| L3 | 5286038700 | COIL, OSC 150KHZ [112MK3, 112MK2] |
| | 5286053700 | COIL, OSC 100KHZ [112RMK2] |
| L101, 201 | 5292813300 | FILTER, LOW PASS 22KHZ [112MK3, 112MK2] |
| | 5292810600 | FILTER, LOW PASS 22KHZ [112RMK2] |
| L102, 202 | 5286038500 | COIL, STEPUP 150K [112MK3, 112RMK2] |
| | 5286047600 | COIL, STEPUP 100K [112MK2] |
| L103, 203 | 5292810000 | FILTER, LOW PASS MPX [112MK3, 112RMK2] |
| | 5292805600 | FILTER, LOW PASS MPX [112MK2] |
| L104, 204 | 5286040820 | COIL, CHOKE 8.2MH VT |
| L105, 205 | 5286041420 | COIL, CHOKE 27.0MH VT |
| L106, 206 | 5286038900 | COIL, TRAP 150KHZ [112MK3, 112RMK2] |
| L107, 207 | 5286024500 | COIL, 270UH [112RMK2] |
| P1 | 5336249600 | PLUG, CONN. B06B-PH-K-S(WHT) |
| P5 | 5336249700 | PLUG, CONN. B07B-PH-K-S(WHT) |
| P6 | 5336250400 | PLUG, CONN. B14B-PH-K-S(WHT) |
| P7 | 5336249400 | PLUG, CONN. B04B-PH-K-S(WHT) [112MK3, 112RMK2] |
| P8 | 5336251400 | PLUG, CONN. B04B-PH-K-R(RED) |
| P9 | 5336135300 | PLUG, CONN. 8263-0312(RED) |
| P10 | 5336135400 | PLUG, CONN. 8263-0412(RED) |
| Q1, 2 | 5232254820 | TR., DIGI. DTA124ES [112MK2] |
| Q3 | 5232254820 | TR., DIGI. DTA124ES [112MK3, 112RMK2] |
| Q4 | 5232255720 | TR., DIGI. DTC124ES [112MK3, 112RMK2] |
| Q5 | 5232254820 | TR., DIGI. DTA124ES |
| Q6 | 5232255720 | TR., DIGI. DTC124ES |
| Q7 | 5232254820 | TR., DIGI. DTA124ES [112MK3, 112RMK2] |
| Q8, 9 | 5232260800 | TR., ARRAY DT5A124E |
| Q10 | 5232260900 | TR., ARRAY DT5C124E |

MAIN PCB ASSY

| REF.NO. | PARTS NO. | DESCRIPTION |
|-----------|--------------|---|
| Q11 | 5232255720 | TR., DIGI. DTC124ES [112MK3] |
| Q12-14 | 5232255720 | TR., DIGI. DTC124ES |
| Q15 | 5230782320 | TR., JC501Q |
| Q16 | 5230019020 | TR., 2SA933SLN |
| Q17, 18 | 5230782320 | TR., JC501Q [112MK3, 112MK2] |
| | 5230780920 | TR., 2SC2603F [112RMK2] |
| Q19 | 5232254820 | TR., DIGI. DTA124ES [112MK2] |
| Q20 | 5232255720 | TR., DIGI. DTC124ES [112MK2] |
| Q21 | 5232255720 | TR., DIGI. DTC124ES |
| Q22 | 5232254920 | TR., DIGI. DTA144ES [112MK3] |
| Q23 | 5232262020 | TR., DIGI. DTC144VS [112MK3] |
| Q24 | 5232261320 | TR., DIGI. DTC314TS [112MK3] |
| Q26 | △ 5231762800 | TR., 2SD1913R |
| Q27 | △ 5230509700 | TR., 2SB1274R |
| Q101, 201 | 5230774400 | TR., 2SC-1845E [112MK2] |
| Q103, 203 | 5230775020 | TR., 2SC2878-B [112MK2] |
| Q104, 204 | 5232008600 | FET., 2SK389BL [112MK3, 112RMK2] |
| Q105-109 | 5232261320 | TR., DIGI. DTC314TS |
| Q205-209 | 5232261320 | TR., DIGI. DTC314TS |
| Q110-113 | 5232255720 | TR., DIGI. DTC124ES |
| Q114, 214 | 5232261320 | TR., DIGI. DTC314TS [112MK2] |
| Q210-213 | 5232255720 | TR., DIGI. DTC124ES |
| R11 | 5280020900 | R., TRIMMER 2.2KB [112MK3, 112RMK2] |
| | 5280021100 | R., TRIMMER 4.7KB [112MK2] |
| R12 | 5280021100 | R., TRIMMER 4.7KB |
| R25, 26 | △ 5241273710 | R., INCOMB. 22 OHM 1W |
| R34 | 5280021700 | R., TRIMMER 47KB [112MK3] |
| R41 | 5280020900 | R., TRIMMER 2.2KB [112MK3] |
| R111, 211 | 5183578000 | R., INCOMB. 1/4W 100 |
| R117, 217 | 5280020900 | R., TRIMMER 2.2KB |
| R122, 222 | 5280021100 | R., TRIMMER 4.7KB |
| R161, 261 | 5280021100 | R., TRIMMER 4.7KB [112MK3, 112RMK2] |
| | 5280020900 | R., TRIMMER 2.2KB [112MK2] |
| R255 | 5280020900 | R., TRIMMER 2.2KB |
| R302, 402 | 5280021300 | R., TRIMMER 10KB |
| R506 | 5280021700 | R., TRIMMER, 47KB [112RMK2] |
| U100 | 5220426200 | IC., M51143AL [112RMK2] |
| U101 | 5220440600 | IC., NJM4565L |
| U102 | 5220444700 | IC., CXA1330S [112MK3, 112RMK2] |
| U103 | 5220440600 | IC., NJM4565L |
| U104 | 5220041100 | IC., DIGI. BU4066B [112MK3, 112RMK2] |
| U105 | 5220041100 | IC., DIGI. BU4066B |
| U106 | 5220440600 | IC., NJM4565L [112MK3] |
| U107 | 5220440600 | IC., NJM4565L |
| U108 | 5220041100 | IC., DIGI. BU4066B [112MK3] |
| U109 | 5220430400 | IC., UPC1297CA |
| U110, 111 | 5220041100 | IC., DIGI. BU4066B [112MK3] |
| U114 | 5220444700 | IC., CXA1330S |
| U116 | 5220440600 | IC., NJM4565L |
| U117 | 5220446000 | IC., LA6515 |
| U118 | 5220425800 | IC., M5230LA |

Parts marked with * require longer delivery time.

122MKIII/112RMKII/112MKII

CONT M PCB ASSY

| REF.NO. | PARTS NO. | DESCRIPTION |
|---------|--------------|-------------------------------------|
| | *5200361700 | CONT M PCB ASSY [112RMK2/J,US,C] |
| | *5200361740 | CONT M PCB ASSY [112RMK2/E,UK,A] |
| | *5200361800 | CONT M PCB ASSY [122MK3/J,US,C] |
| | *5200361840 | CONT M PCB ASSY [122MK3/E,UK,A] |
| | *5200361900 | CONT M PCB ASSY [112MK2/J,US,C] |
| | *5200361940 | CONT M PCB ASSY [112MK2/E,UK,A] |
| | *5210361702 | CONT M PCB |
| | *5332015800 | HOLDER,FUSE [E,UK,A] |
| | *5555590000 | PLATE A,EARTH |
| | *5730039200 | HEAT SINK,OSH-2425-SPL |
| | *5780003008 | SCREW,BIND M3X8 |
| | *5800990100 | HEAT SINK |
| | *5783723008 | SCREW,BIND B-TITE M3X8 |
| | *5800673000 | HEAT SINK |
| C25 | △ 5267703800 | SPARK KILLER,4700PF400V M |
| CR1 | 5347017700 | OSC.,EFO-GC4194A4 |
| D1-7 | 5224015020 | DIODE,ISS133T-77 |
| D8 | 5224015020 | DIODE,ISS133T-77 [112RMK2] |
| D9,10 | 5224015020 | DIODE,ISS133T-77 |
| D11 | 5224015020 | DIODE,ISS133T-77 |
| D12 | 5224574401 | DIODE,ZENER RD7.5EL2 FR |
| D13 | 5224016720 | DIODE,ISR35-200A FT |
| D14 | 5224571801 | DIODE,ZENER RD3.0FL2 FR |
| D15 | 5224574001 | DIODE,ZENER RD6.8EL1 FR |
| D16,17 | 5224016720 | DIODE,ISR35-200A FT |
| D18 | 5224015020 | DIODE,ISS133T-77 |
| D19 | 5224579501 | DIODE,ZENER RD33EL2 FR |
| D20,21 | 5224015020 | DIODE,ISS133T-77 |
| D22 | 5224573201 | DIODE,ZENER RD5.1EL2 FR |
| D23 | △ 5228010800 | SILICON STACK,S2VB10 |
| D25 | 5224016720 | DIODE,ISR35-200A FT |
| D26-29 | 5224015020 | DIODE,ISS133T-77 |
| D30 | 5224012920 | DIODE,IS2473 |
| D33,34 | 5224015020 | DIODE,ISS133T-77 |
| F1 | △ 5041140000 | FUSE,MINI 1A-250V(T) [E,UK,A] |
| F2,3 | △ 5142185000 | FUSE,MINI 630MA/250V(T) [E,UK,A] |
| P3 | 5336250100 | PLUG,CON. B11B-PH-K-S(WHT) |
| P5 | 5336127000 | PLUG,CON. 8263-1012(WHT) |
| P6 | 5336249700 | PLUG,CON. B07B-PH-K-S(WHT) |
| P8 | 5336135400 | PLUG,CON. 8263-0412(RED) |
| P9 | 5336126400 | PLUG,CONN. 8263-0412(WHT) |
| P10 | 5336126300 | PLUG,CONN. 8263-0312(WHT) |
| P11 | 5334078300 | SOCKET,CON. 25P |
| P12 | 5336249200 | PLUG,CON. B02B-PH-K-S(WHT) |

CONT M PCB ASSY

| REF.NO. | PARTS NO. | DESCRIPTION |
|---------|--------------|--|
| P18 | 5327007200 | TERMINAL,2P |
| Q1 | 5232255720 | TR.,DIGI. DTC124ES |
| Q2,3 | 5232260900 | TR.,ARRAY DT5C124E |
| Q4,5 | 5232261500 | TR.,ARRAY DT5A143E |
| Q6 | 5232260900 | TR.,ARRAY DT5C124E [122MK3,112RMK2] |
| Q7 | 5230012920 | TR.,2SA1015GR |
| Q8-11 | 5232255720 | TR.,DIGI. DTC124ES |
| Q12 | 5232254820 | TR.,DIGI. DTA124ES |
| Q13 | 5232255720 | TR.,DIGI. DTC124ES |
| Q14 | 5232256820 | TR.,DIGI. DTB143ES |
| Q15-17 | 5232255720 | TR.,DIGI. DTC124ES |
| Q18 | 5230012920 | TR.,2SA1015GR |
| Q19 | 5231763000 | TR.,2SD1380R |
| Q20-25 | 5232255720 | TR.,DIGI. DTC124ES |
| Q26 | 5232255720 | TR.,DIGI. DTC124ES [112RMK2] |
| Q27,28 | 5232255720 | TR.,DIGI. DTC124ES |
| Q29 | 5232255720 | TR.,DIGI. DTC124ES |
| Q30,31 | 5232260900 | TR.,ARRAY DT5C124E |
| R3 | 5242131200 | R.,ARRAY EXB Z06E103J |
| R10 | 5241270510 | R.,INCOMB. 1.0/1W J FF |
| R11 | 5241273310 | R.,INCOMB. 15/1W J FF |
| R18 | 5242135300 | R.,ARRAY RMLS6J103 |
| R19,20 | 5181978000 | R.,INCOMB. F50 15 OHM J |
| R21 | 5242135400 | R.,ARRAY RMLS9J103 |
| RT1 | 5228017800 | THERMISTOR,S5D-020 [112RMK2,112MK2] |
| S1 | △ 5300054700 | SW.,PUSH SDDL1 I-1 |
| S2 | 5302110900 | SW.,EQV 215 05R |
| U1 | 5220833100 | MICOM.,UPD75108CW-W63 |
| U2 | 5220069900 | IC.,DIGI. HD74HC138P |
| U3 | 5220829200 | IC.,M5M80011P |
| U4 | 5220108400 | IC.,DIGI. M66008P |
| U5 | 5220430300 | IC.,L78MR05 |
| U6,7 | 5220444900 | IC.,BA6219 |
| U8 | △ 5220434800 | IC.,M5F7812L |

COUNTER PCB ASSY

| REF.NO. | PARTS NO. | DESCRIPTION |
|---------|-------------|-------------------------------------|
| | *5200362700 | COUNTER PCB ASSY [112RMK2] |
| | *5200362710 | COUNTER PCB ASSY [122MK3] |
| | *5200362720 | COUNTER PCB ASSY [112MK2] |
| | *5210362700 | COUNTER PCB |
| | *5801500100 | HOLDER,FL 134 |
| | *5801579000 | SPACER,LH-5 L=9.3 |
| | *5801579100 | SPACER,LH-5 L=3.3 [112RMK2] |
| D1-4 | 5225018500 | LED,SLR-34DU3F |
| D5,6 | 5225029300 | LED,INDICATOR LD-201MG [112RMK2] |

[US]:U.S.A. [E]:EUROPE [UK]:U.K. [C]:CANADA [J]:JAP.
[A]:AUSTRALIA

Parts marked with * require longer delivery time.

122MKIII/112RMKII/112MKII

COUNTER PCB ASSY

| REF.NO. | PARTS NO. | DESCRIPTION |
|---------|------------|--------------------------------------|
| D7,8 | 5225018500 | LED,SLR-34DU3F [122MK3,112RMK2] |
| D9-11 | 5224015020 | DIODE,ISS133T-77 |
| D12 | 5224012920 | DIODE,IS2473 |
| D13,14 | 5224015020 | DIODE,ISS133T-77 |
| D15,16 | 5224012920 | DIODE,IS2473 [122MK3,112RMK2] |
| D17 | 5224015020 | DIODE,ISS133T-77 [122MK3,112RMK2] |
| D18-23 | 5224015020 | DIODE,ISS133T-77 |
| D24 | 5224012920 | DIODE,IS2473 |
| D25 | 5224015020 | DIODE,ISS133T-77 |
| D26 | 5225018500 | LED,SLR-34DU3F [122MK3] |
| Q1,2 | 5232255720 | TR.,DIGI. DTC124ES |
| Q3 | 5232260900 | TR.,ARRAY DT5C124E |
| Q4 | 5232255720 | TR.,DIGI. DTC124ES |
| SI-9 | 5302110900 | SW.,EQV 215 05R |
| UI | 5347027800 | COUNTER,FL 5-BT-137GK |

JOINT C PCB ASSY

| REF.NO. | PARTS NO. | DESCRIPTION |
|---------|-------------|---------------------------|
| | *5200362800 | JOINT C PCB ASSY |
| | *5210362800 | JOINT C PCB |
| P1 | 5336280100 | PLUG,CONN. 1L-SDD-11P-S2T |
| P2 | 5336280200 | PLUG,CONN. 1L-SDD-12P-S2T |

JACK PCB ASSY

| REF.NO. | PARTS NO. | DESCRIPTION |
|----------|-------------|---------------------------|
| | *5200361500 | JACK PCB ASSY [112RMK2] |
| | *5200361510 | JACK PCB ASSY [122MK3] |
| | *5200361520 | JACK PCB ASSY [112MK2] |
| | *5210361501 | JACK PCB [122MK3,112RMK2] |
| | *5210364801 | JACK PCB [112MK2] |
| J101,102 | 5330017600 | JACK,FJ316DNNB-Z |
| J103 | 5330017700 | JACK,SINGLE FJ332DB-Z |
| P1,2 | 5336398100 | PLUG,CONN. 10P-FJ |
| P3 | 5336398500 | PLUG,CONN. 14P-FJ |
| R101,201 | 5282026500 | VR.,10KB ISIUVR [122MK3] |
| R102,202 | 5282026500 | VR.,10KB ISIUVR [122MK3] |
| R103 | 5282420300 | VR.,10KAX2 IS2UVR 09 |
| SI01 | 5300916700 | SW.,SLIDE 2-3 SSSU |
| SI02,103 | 5300917000 | SW.,SLIDE 2-2 |

VR PCB ASSY

| REF.NO. | PARTS NO. | DESCRIPTION |
|----------|-------------|------------------------------|
| | *5200361400 | VR PCB ASSY [112RMK2,122MK3] |
| | *5210361400 | VR PCB [112RMK2,122MK3] |
| | *5200361420 | VR PCB ASSY [112MK2] |
| | *5210364700 | VR PCB [112MK2] |
| | 5801567500 | HOLDER,R VOL |
| J1 | 5336281900 | SOCKET,CONN. 1L-SDD-9S-S2L2 |
| R101,201 | 5282026400 | VR.,20KA ISIUVR 16 |
| R102 | 5282411600 | VR.,10KAX2 IS2UVR 16 |

METER AMP PCB ASSY

| REF.NO. | PARTS NO. | DESCRIPTION |
|----------|-------------|--|
| | *5200362600 | METER AMP PCB ASSY [112RMK2,112MK2] |
| | *5200362610 | METER AMP PCB ASSY [112RMK2,112MK2] |
| | *5210362600 | METER AMP PCB |
| D101,201 | 5224015400 | DIODE,1K60 |
| D102,202 | 5224015400 | DIODE,1K60 |
| D104,204 | 5224012920 | DIODE,IS2473 |
| J1 | 5336281900 | SOCKET,CON. 1L-SDD-9S-S2L2 |
| P1 | 5336280500 | PLUG,CONN. 1L-SDD-15P-S2T |
| P2 | 5336279900 | PLUG,CONN. 1L-SDD-9P-S2T |
| Q101,201 | 5230780920 | TR.,2SC2603F |
| Q102,202 | 5232255720 | TR.,DIGI. DTC124ES [122MK3] |
| R104,204 | 5280036100 | R.,TRIMMER 4.7KB |
| UI01,102 | 5220440600 | IC.,NJM4565L |

P.CONT PCB ASSY

| REF.NO. | PARTS NO. | DESCRIPTION |
|---------|-------------|---------------------------------------|
| | *5200362100 | P.CONT PCB ASSY [112RMK2] |
| | *5210362100 | P.CONT PCB [112RMK2] |
| | *5200362110 | P.CONT PCB ASSY [122MK3] |
| | *5200362120 | P.CONT PCB ASSY [112MK2] |
| | *5210362101 | P.CONT PCB [122MK3,112RMK2] |
| R1,2 | 5280035700 | R.,TRIMMER 1KB [112RMK2,112MK2] |
| | 5280036100 | R.,TRIMMER 4.7KB [122MK3] |
| R4 | 5282026700 | VR.,1KB ISIUVR 11 [112RMK2,112MK2] |
| | 5282026600 | VR.,10KB ISIUVR [122MK3] |
| SI | 5301207400 | SW.,ROTARY 2-2 |

Parts marked with * require longer delivery time.

122MKIII/112RMKII/112MKII

JOINT M PCB ASSY

| REF.NO. | PARTS NO. | DESCRIPTION |
|---------|-------------|---------------------------|
| P1 | *5200362500 | JOINT M PCB ASSY |
| | *5210362500 | JOINT M PCB |
| | 5336279900 | PLUG, CONN. 1L-SDD-9P-S2T |

BAL AMP PCB ASSY [112MK3]

| REF.NO. | PARTS NO. | DESCRIPTION |
|----------|-------------|------------------------------|
| J101,201 | *5200363000 | BAL AMP PCB ASSY |
| | *5210363000 | BAL AMP PCB |
| | 5334042200 | SOCKET, CANNON CONN. XLB3-31 |
| J102,202 | 5334042100 | PLUG, CANNON CONN. XLB3-32 |
| Q101 | 5231763000 | TR., 2SD1380 R |
| Q102 | 5231763600 | TR., 2SB1009 R |
| S101 | 5300917000 | SW., SLIDE 2-2 |
| U101 | 5220439500 | IC., UPC4570HA |
| U102,202 | 5242127700 | R, ARRAY RMNZ8 618 |
| U103,203 | 5220431100 | IC., NJM5532S |

CONT S PCB ASSY

| REF.NO. | PARTS NO. | DESCRIPTION |
|---------|-------------|---------------------------------|
| D1-3 | *5200362000 | CONT S PCB ASSY [112RMK2] |
| | *5200362010 | CONT S PCB ASSY [112MK3] |
| | *5200362020 | CONT S PCB ASSY [112MK2] |
| | *5210362001 | CONT S PCB |
| D4 | 5224015020 | DIODE, 1SS133T-77 [112RMK2] |
| D5,6 | 5224015020 | DIODE, 1SS133T-77 [112RMK2] |
| J1 | 5336282100 | SOCKET, CON. 1L-SDD-11S-S2L2 |
| J2 | 5336282200 | SOCKET, CON. 1L-SDD-12S-S2L2 |
| J3-6 | 5336401200 | CONNECTOR, TFC-B08Y-E1 |
| P1 | 5336137800 | PLUG, CONN. 8263-0812(BLK) |
| Q1 | 5232261700 | TR., DIGI. DTB143EV-TV2 |
| Q2 | 5232255720 | TR., DIGI. DTC124ES |
| Q3 | 5232254820 | TR., DIGI. DTA124ES |
| Q4 | 5232260800 | TR., ARRAY DT5A124E |
| Q5 | 5230780920 | TR., 2SC2603F [112MK3, 112RMK2] |
| Q6 | 5231763000 | TR., 2SD1380R [112RMK2] |
| Q7 | 5231763000 | TR., 2SD1380R [112MK3, 112RMK2] |
| Q8,9 | 5232255720 | TR., DIGI. DTC124ES [112RMK2] |
| Q10,11 | 5232254820 | TR., DIGI. DTA124ES [112RMK2] |
| Q12 | 5232008420 | FET., 2SK381D [112RMK2] |
| Q13 | 5232255720 | TR., DIGI. DTC124ES [112RMK2] |
| R8 | 5280041300 | R., TRIMMER 2.2KB [112RMK2] |
| R9 | 5280041300 | R., TRIMMER 2.2KB |

CONT S PCB ASSY

| REF.NO. | PARTS NO. | DESCRIPTION |
|---------|------------|-------------------------------|
| R26 | 5280042100 | R., TRIMMER 47KB [112RMK2] |
| R53 | 5242130100 | R., ARRAY EXB Z05E472J |
| U1 | 5232253300 | TR., ARRAY LB1240 |
| U2 | 5220426300 | IC., BA6993 [112RMK2] |
| U3 | 5220426300 | IC., BA6993 |
| U4 | 5220426300 | IC., BA6993 [112MK3, 112RMK2] |

METER PCB ASSY

| REF.NO. | PARTS NO. | DESCRIPTION |
|----------|-------------|----------------------|
| D101,201 | *5200362400 | METER PCB ASSY |
| | *5210362400 | METER PCB |
| | 5800385100 | SPACER, LED |
| | 5225013500 | LED, SLR-34VR3F(RED) |

OP SW PCB ASSY

| REF.NO. | PARTS NO. | DESCRIPTION |
|---------|-------------|-----------------------|
| D1,2 | *5200362200 | OP SW PCB ASSY |
| | *5210362201 | OP SW PCB |
| | 5801501301 | SPACER, LED L=4.1 |
| | 5224017820 | DIODE, MA165P-TA5 |
| D5,6 | 5224017820 | DIODE, MA165P-TA5 |
| D7 | 5225013600 | LED, SLR-34MG3F(GRN) |
| D8 | 5225018500 | LED, SLR-34DU3F |
| D9 | 5225013500 | LED, SLR-34VR3F(RED) |
| S1,2 | 5302112100 | SW., EVQ-235 |
| S3-5 | 5302110900 | SW., EQV 215 05R |
| S6 | 5302112100 | SW., EVQ-235 |

SW(E) PCB ASSY [112MK3, 112RMK2]

| REF.NO. | PARTS NO. | DESCRIPTION |
|---------|-------------|------------------------------------|
| S1-5 | *5200363500 | SW(E) PCB ASSY [112RMK2] |
| | *5200363510 | SW(E) PCB ASSY [112MK3] |
| | *5210363500 | SW(E) PCB |
| | *5334083000 | PLUG, CONN. B03B-ZR(WHT) [112RMK2] |
| S1-5 | 5301754500 | SW., LEAF MTS10161MVJO |

Parts marked with * require longer delivery time.

SW PCB ASSY [112MK2]

| REF.NO. | PARTS NO. | DESCRIPTION |
|------------|-------------|------------------------|
| SI S3-5 | *5200333900 | SW PCB ASSY |
| | *5210333901 | SW PCB |
| | 5301754500 | SW., LEAF MTS10161MVJ0 |
| | 5301754500 | SW., LEAF MTS10161MVJ0 |

SW(R) PCB ASSY [112RMK2]

| REF.NO. | PARTS NO. | DESCRIPTION |
|---------|-------------|----------------|
| SI | *5200363200 | SW(R) PCB ASSY |
| | *5210363200 | SW(R) PCB |
| | 5301654100 | SW., D2A |

SENSOR(R) PCB ASSY [122MK3, 112RMK2]

| REF.NO. | PARTS NO. | DESCRIPTION |
|---------|-------------|-------------------------------------|
| | *5200363300 | SENSOR(R) PCB ASSY [112RMK2] |
| | *5200363310 | SENSOR(R) PCB ASSY [122MK3] |
| | *5210363300 | SENSOR(R) PCB |
| DI | 5224017120 | DIODE, ISRI39-200 T-31 |
| D2 | 5224017120 | DIODE, ISRI39-200 T-31 [112RMK2] |
| Q1-4 | 5228017200 | PHOTO REF., NJL5161KFI-B |

SENSOR PCB ASSY [112MK2]

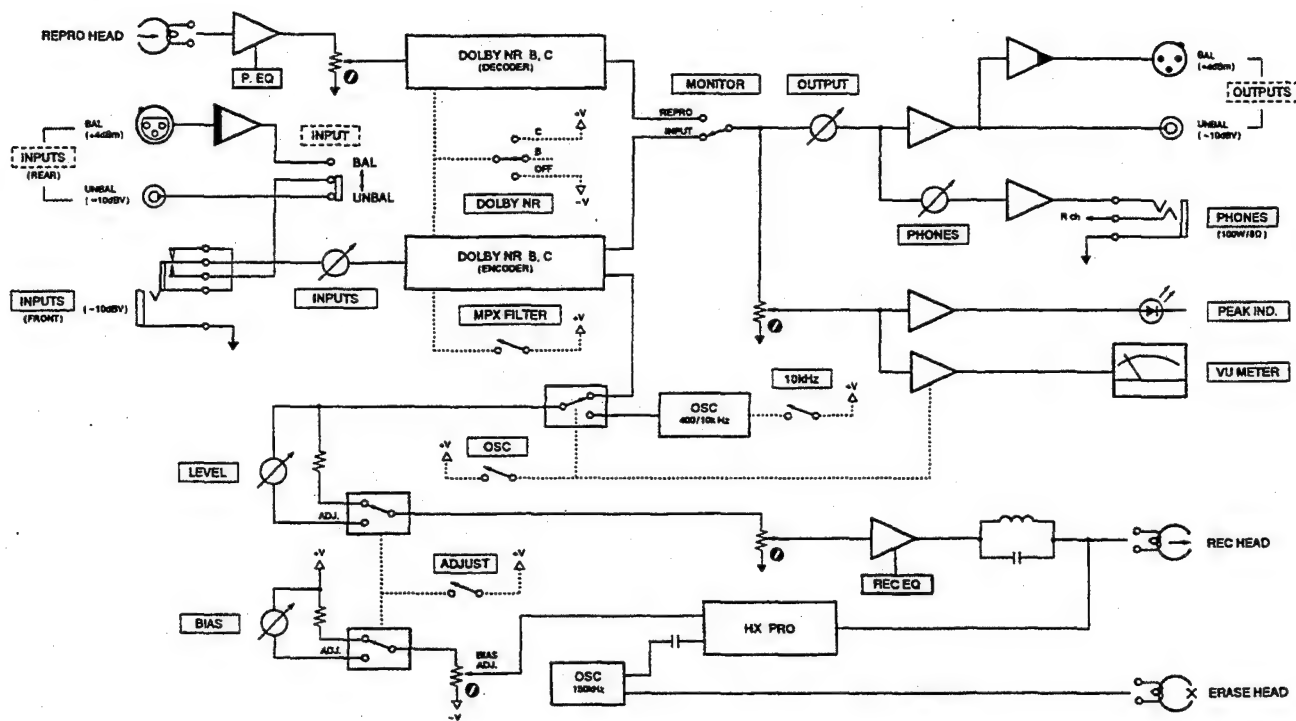
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|---------|-------------|--------------------------|
| Q1,2 | *5200343210 | SENSOR PCB ASSY |
| | *5210333802 | SENSOR PCB |
| | 5228017200 | PHOTO REF., NJL5161KFI-B |

Parts marked with * require longer delivery time.

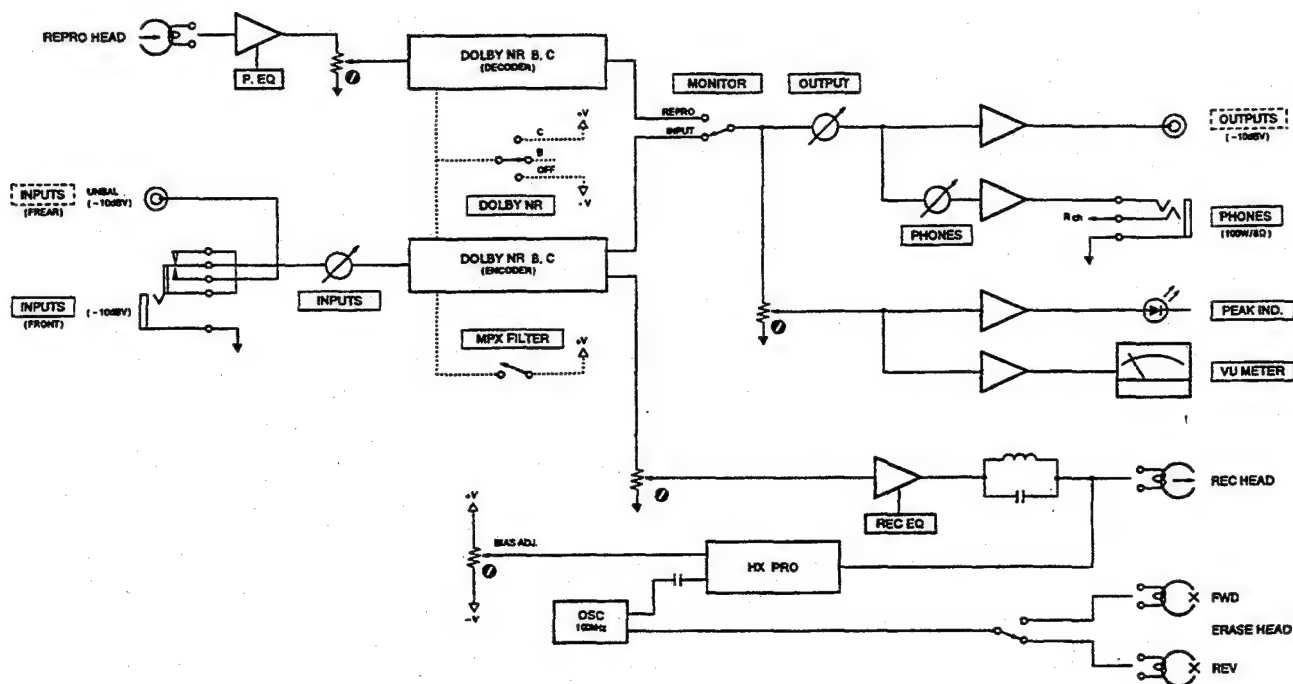
6. BLOCK DIAGRAMS

ブロック・ダイアグラム

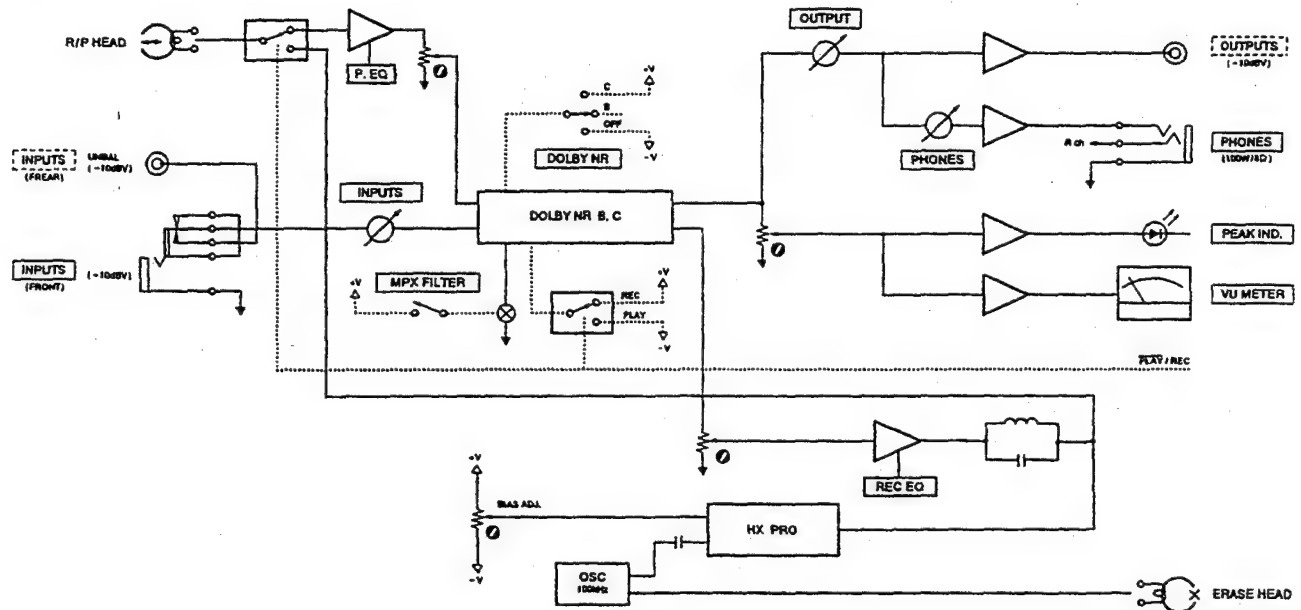
122MKIII

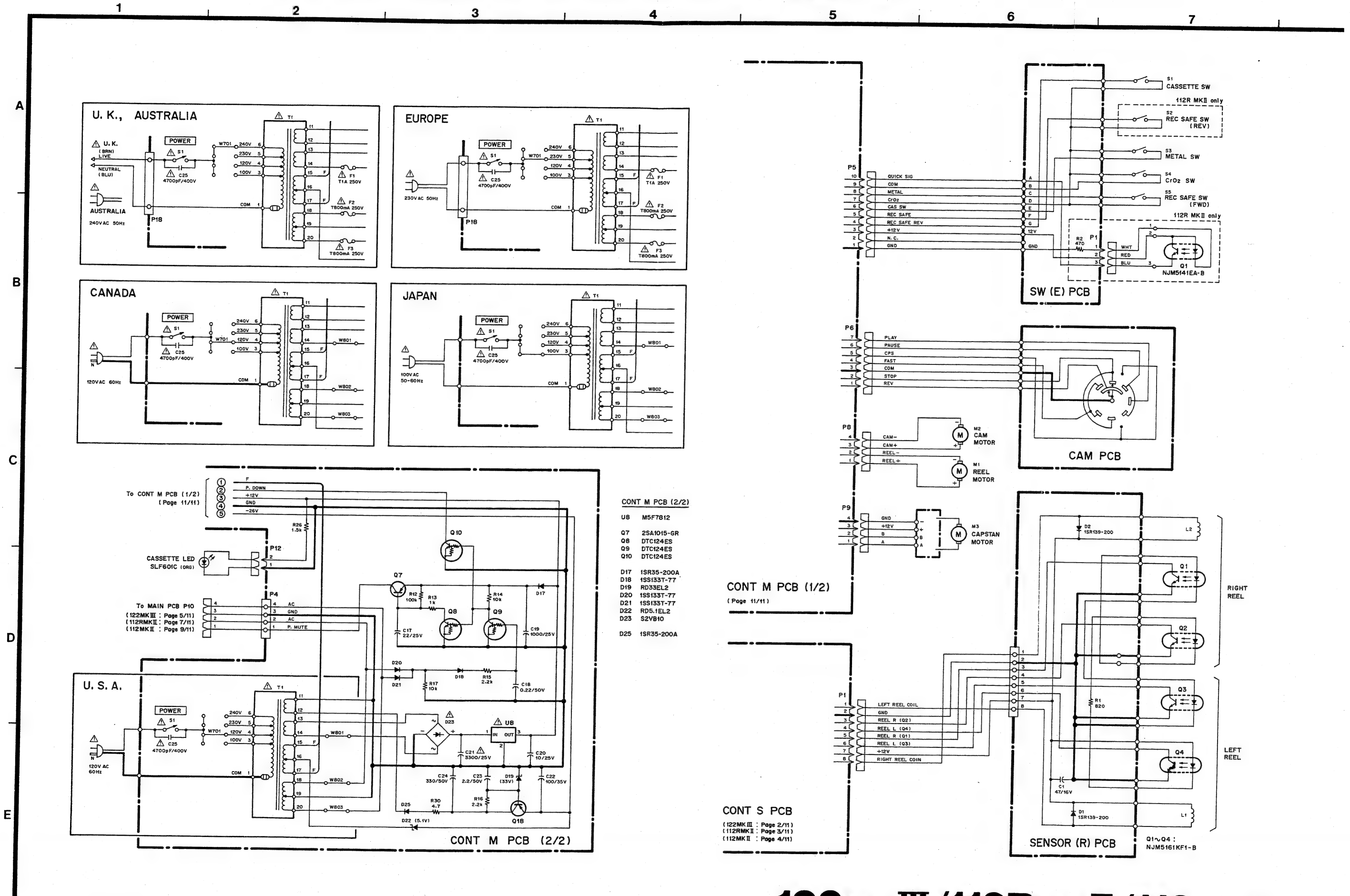


112RMKII



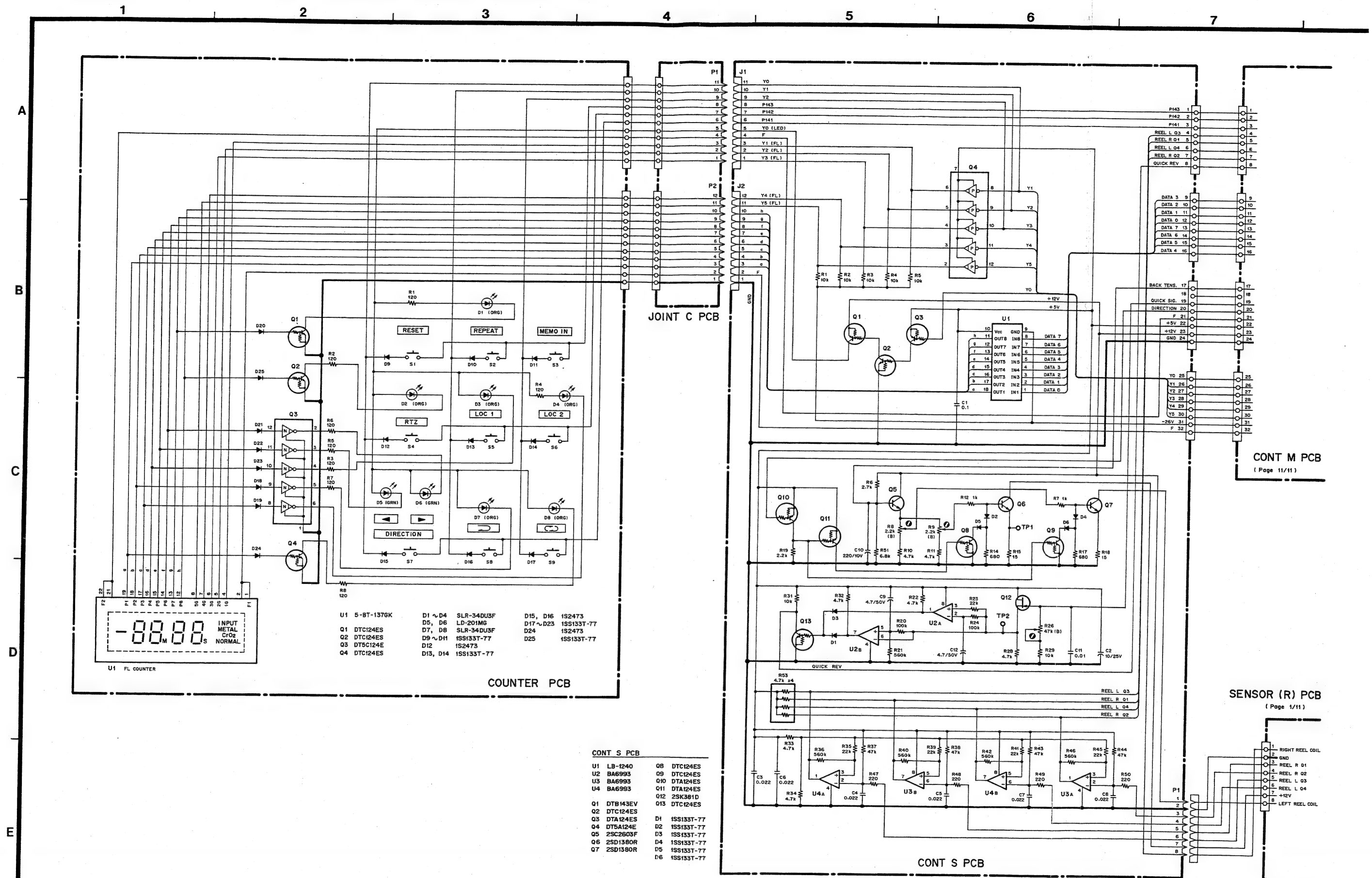
112MKII

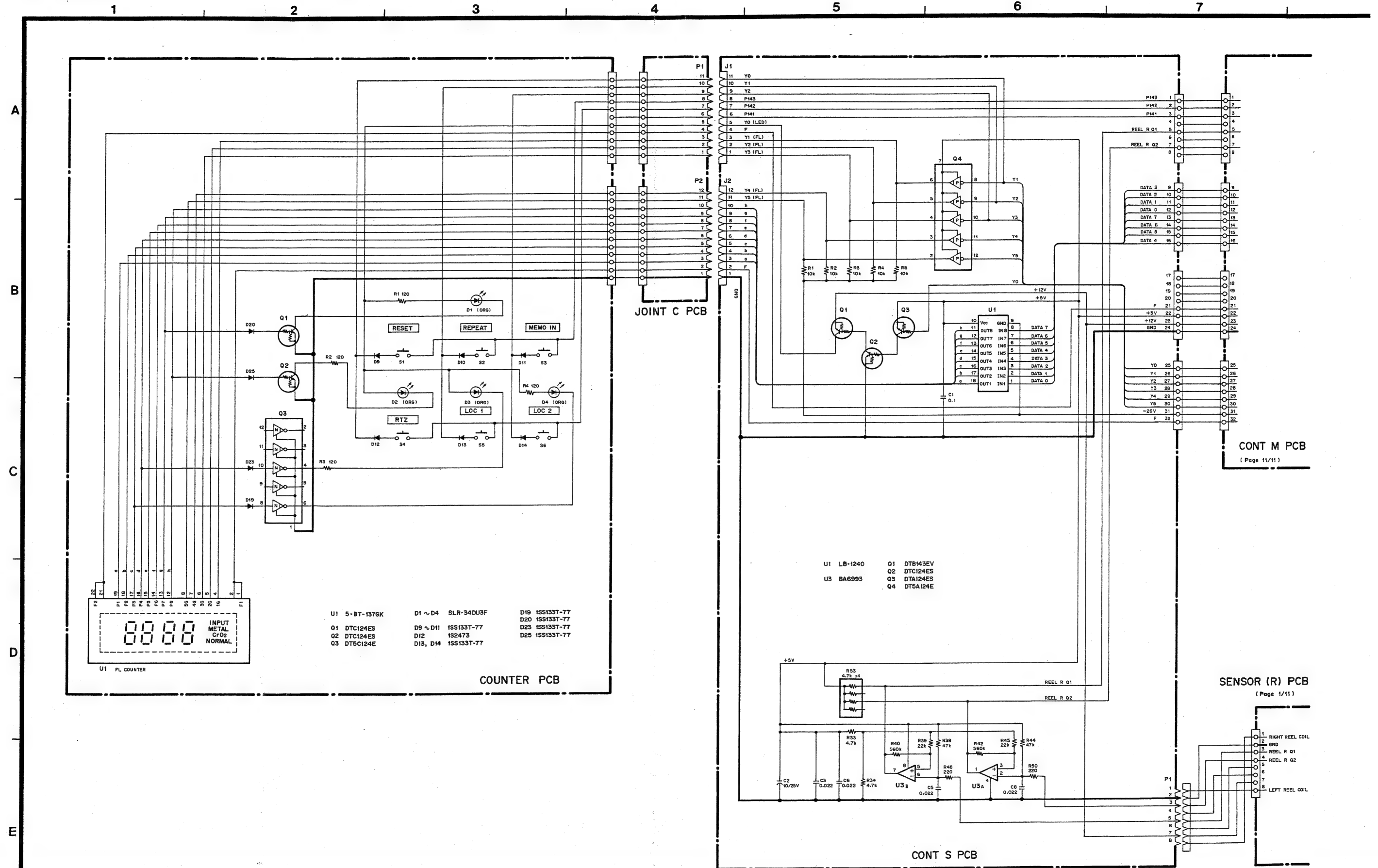


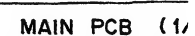


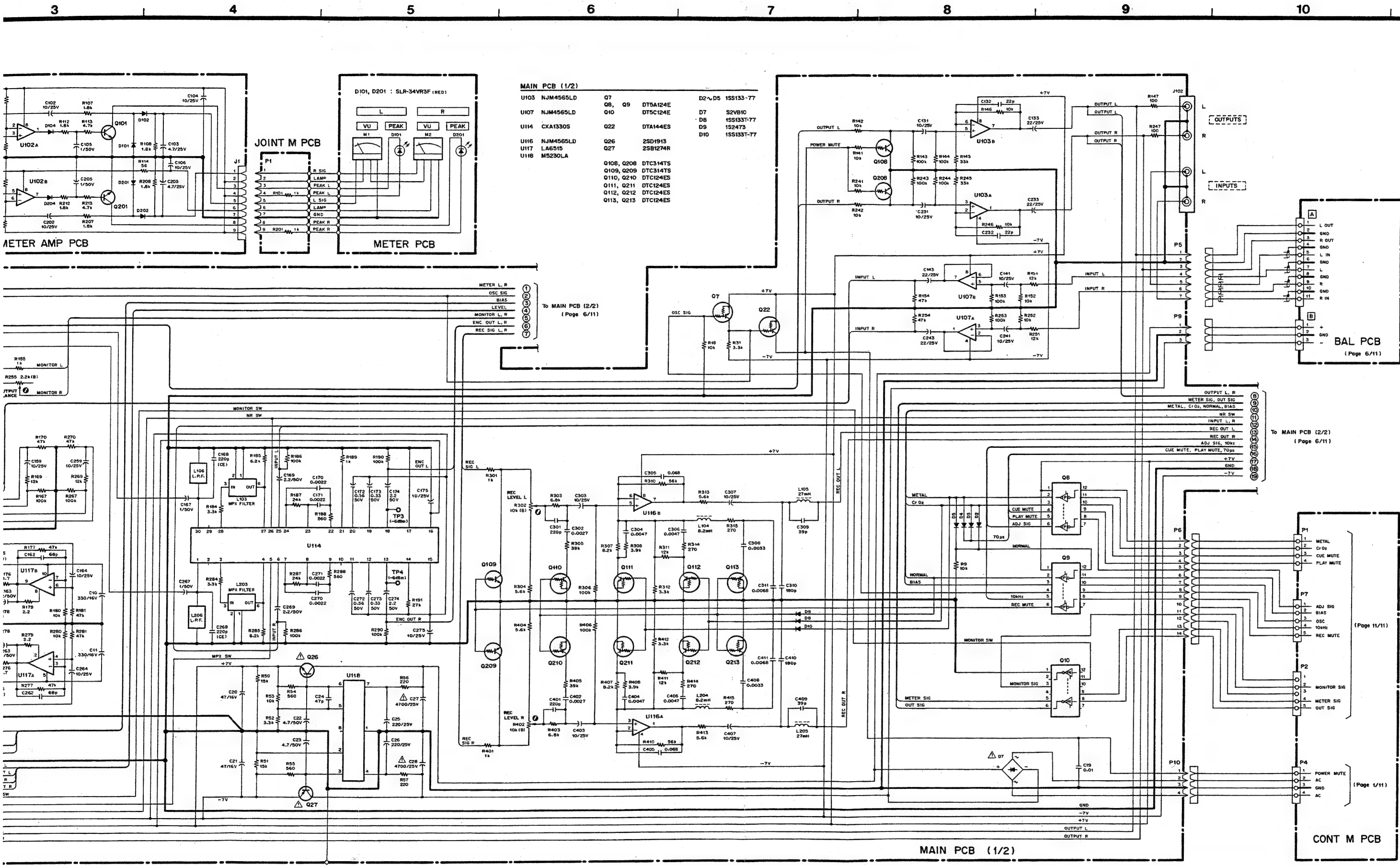
122MKIII/112RMKII/112MKII



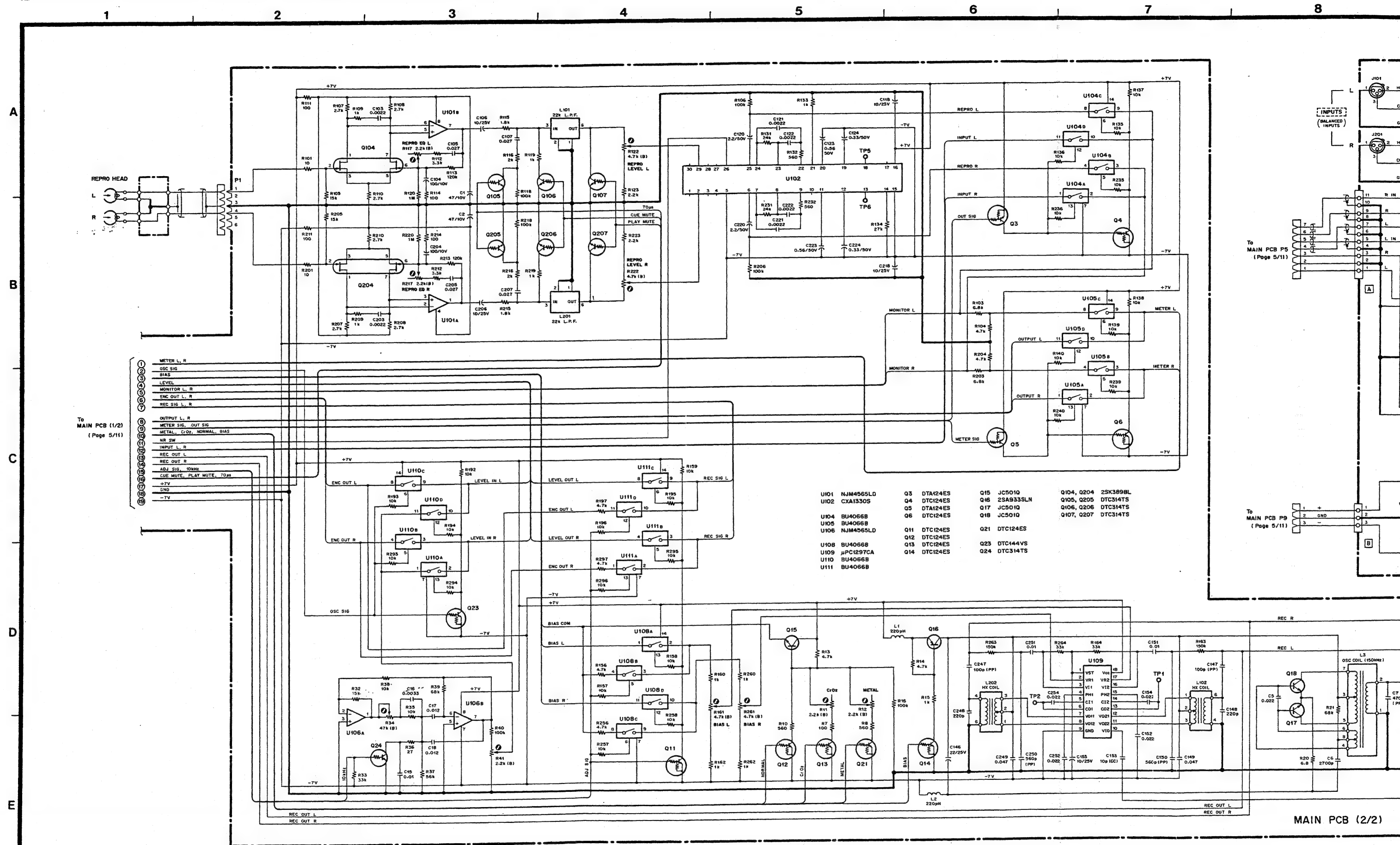




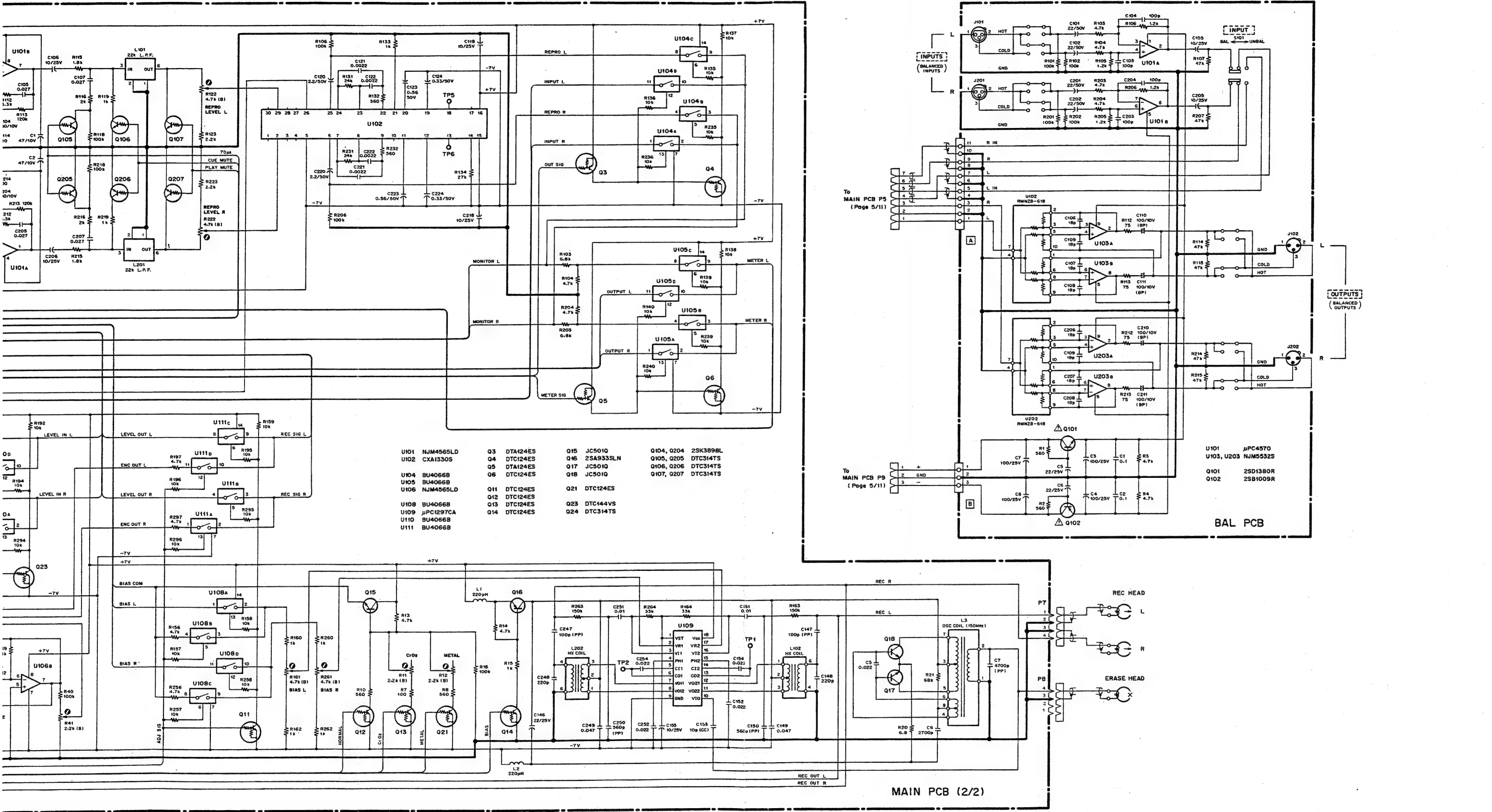




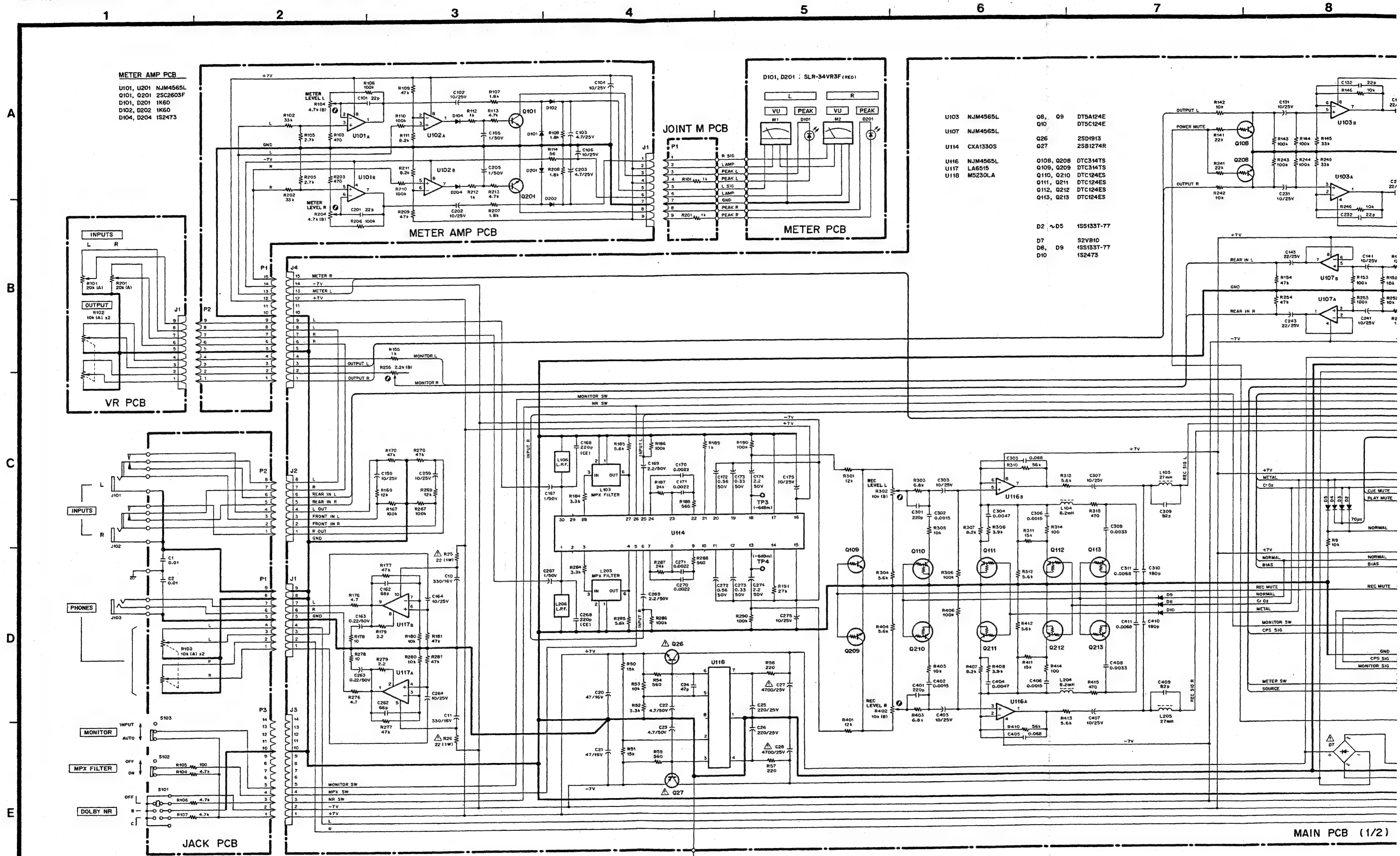
Stereo Cassette Deck 122MKIII

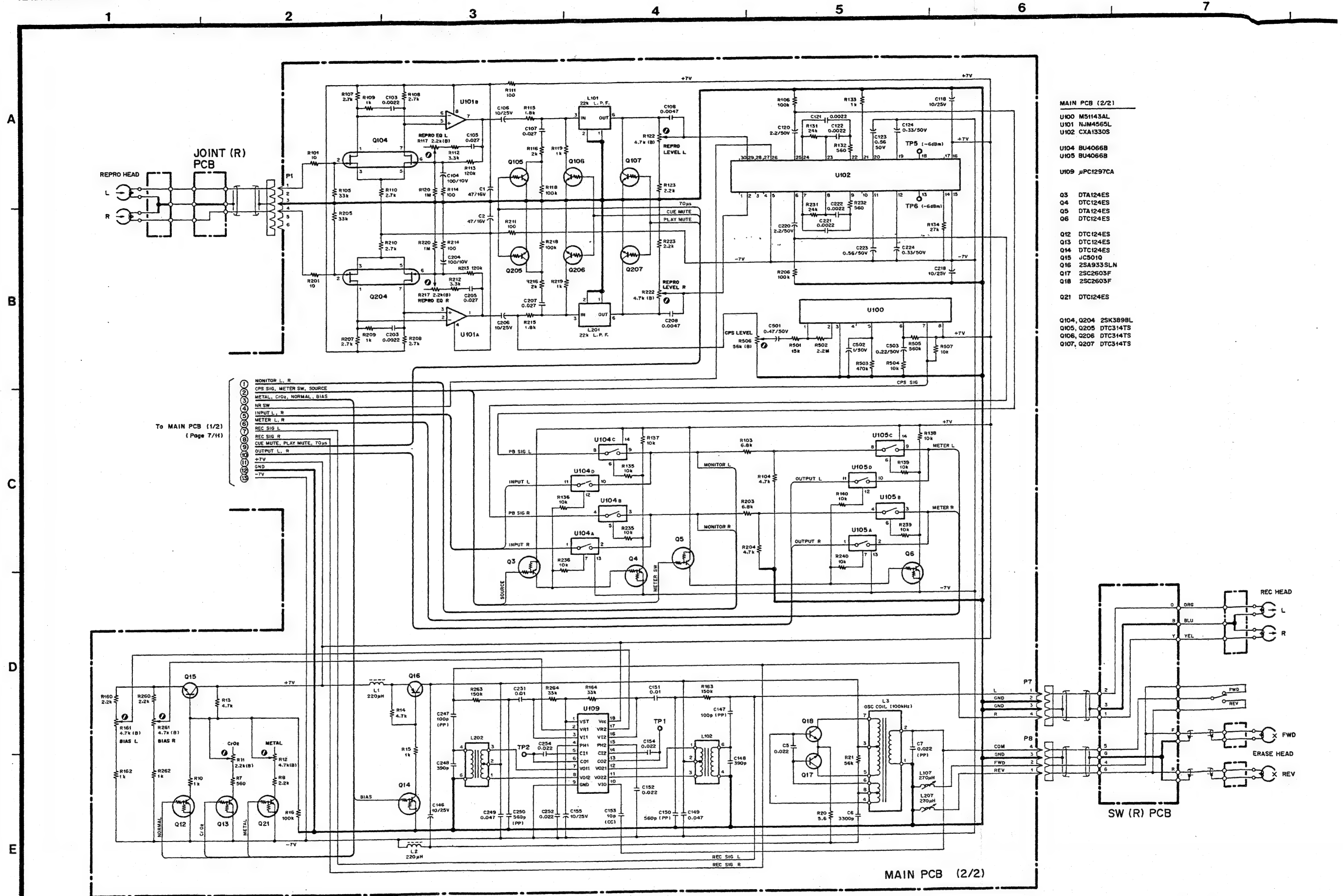


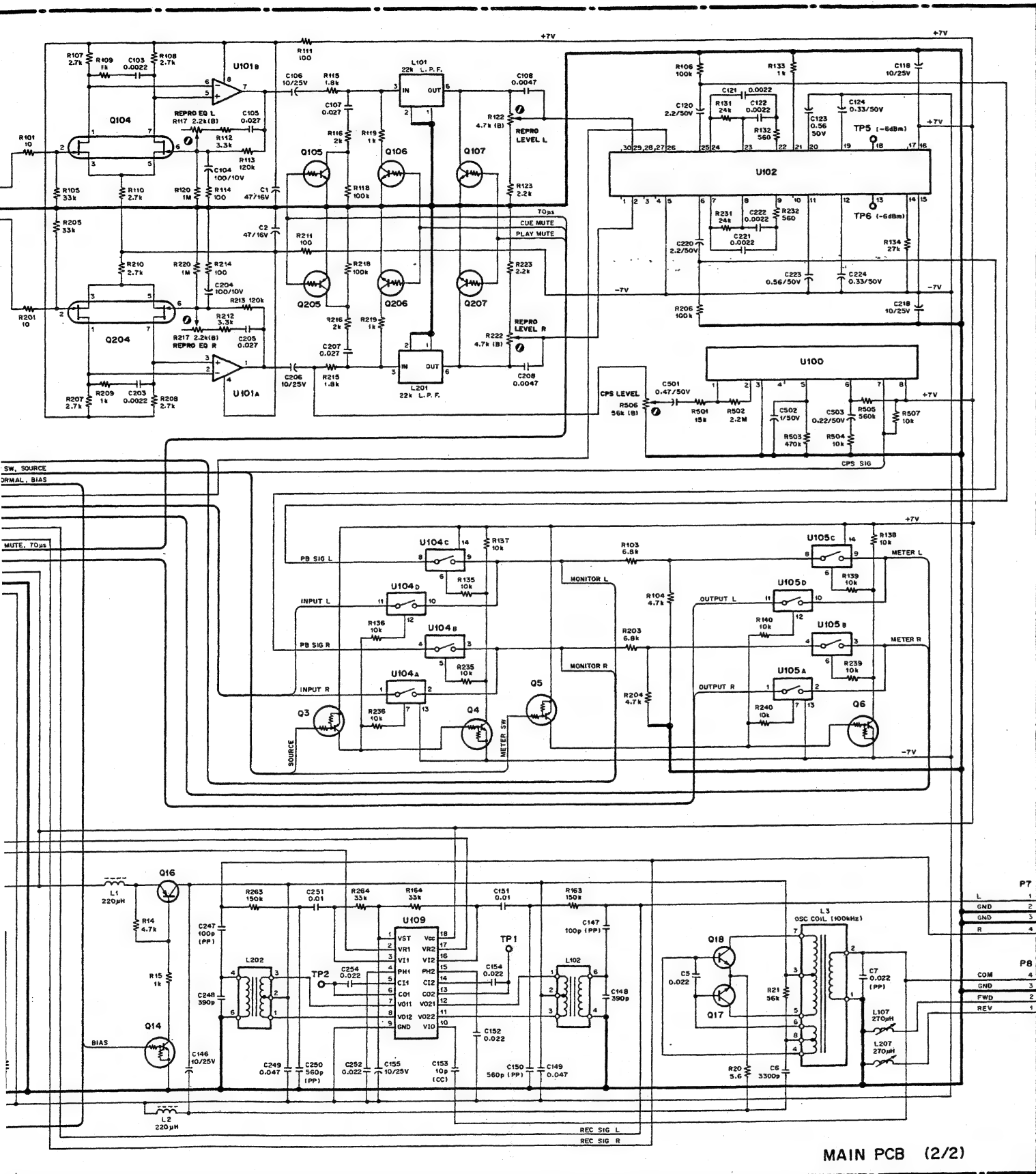
MAIN PCB (2/2)



Stereo Cassette Deck 122MKIII



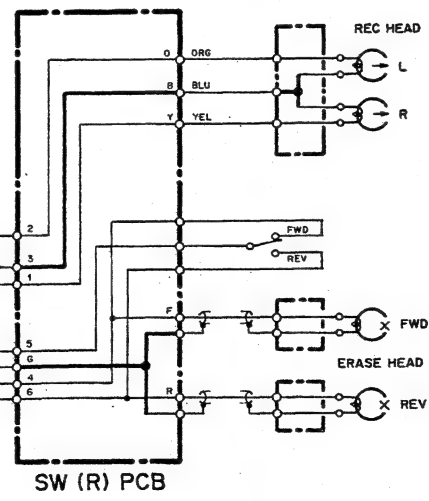




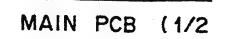
MAIN PCB (2/2)

- U100 M51143AL
- U101 NJM4565L
- U102 CXA1330S
- U104 BU4066B
- U105 BU4066B
- U109 μ PC1297CA
- Q3 DTA124ES
- Q4 DTC124ES
- Q5 DTA124ES
- Q6 DTC124ES
- Q12 DTC124ES
- Q13 DTC124ES
- Q14 DTC124ES
- Q15 JCS01Q
- Q16 2SA933SLN
- Q17 2SC2603F
- Q18 2SC2603F
- Q21 DTC124ES

- Q104, Q204 2SK389BL
- Q105, Q205 DTC314TS
- Q106, Q206 DTC314TS
- Q107, Q207 DTC314TS



Stereo Cassette Deck 112RMKII



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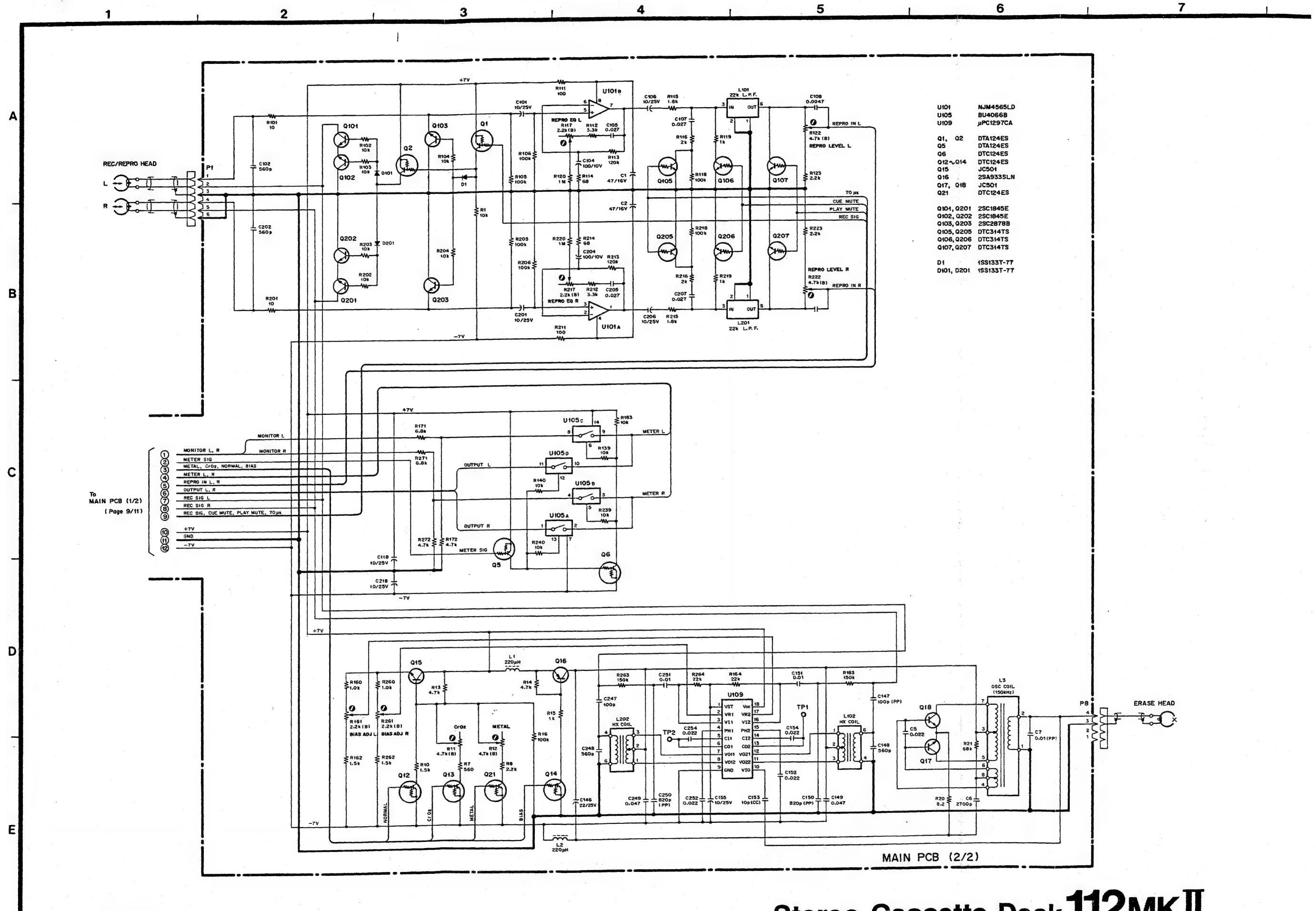
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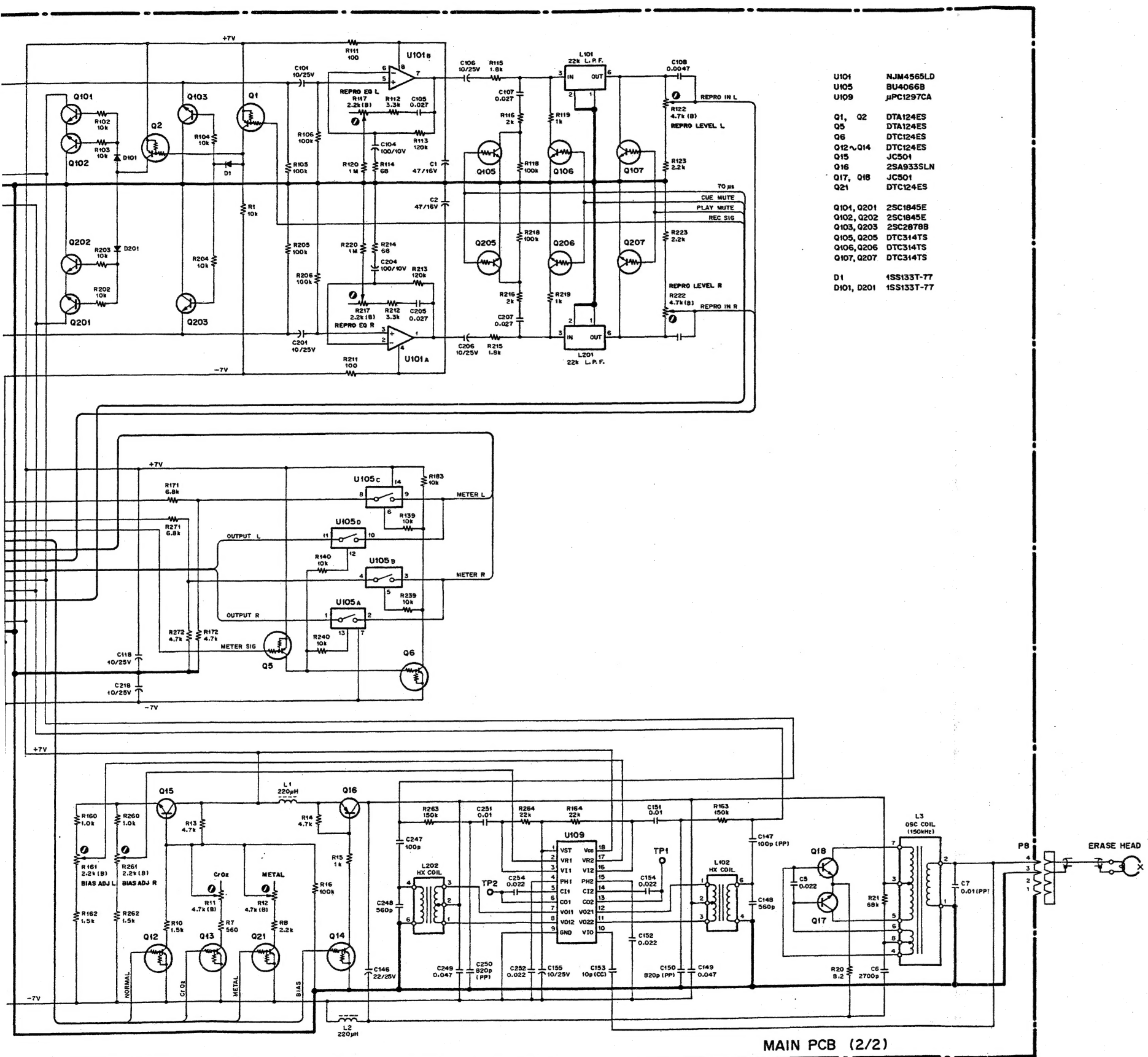
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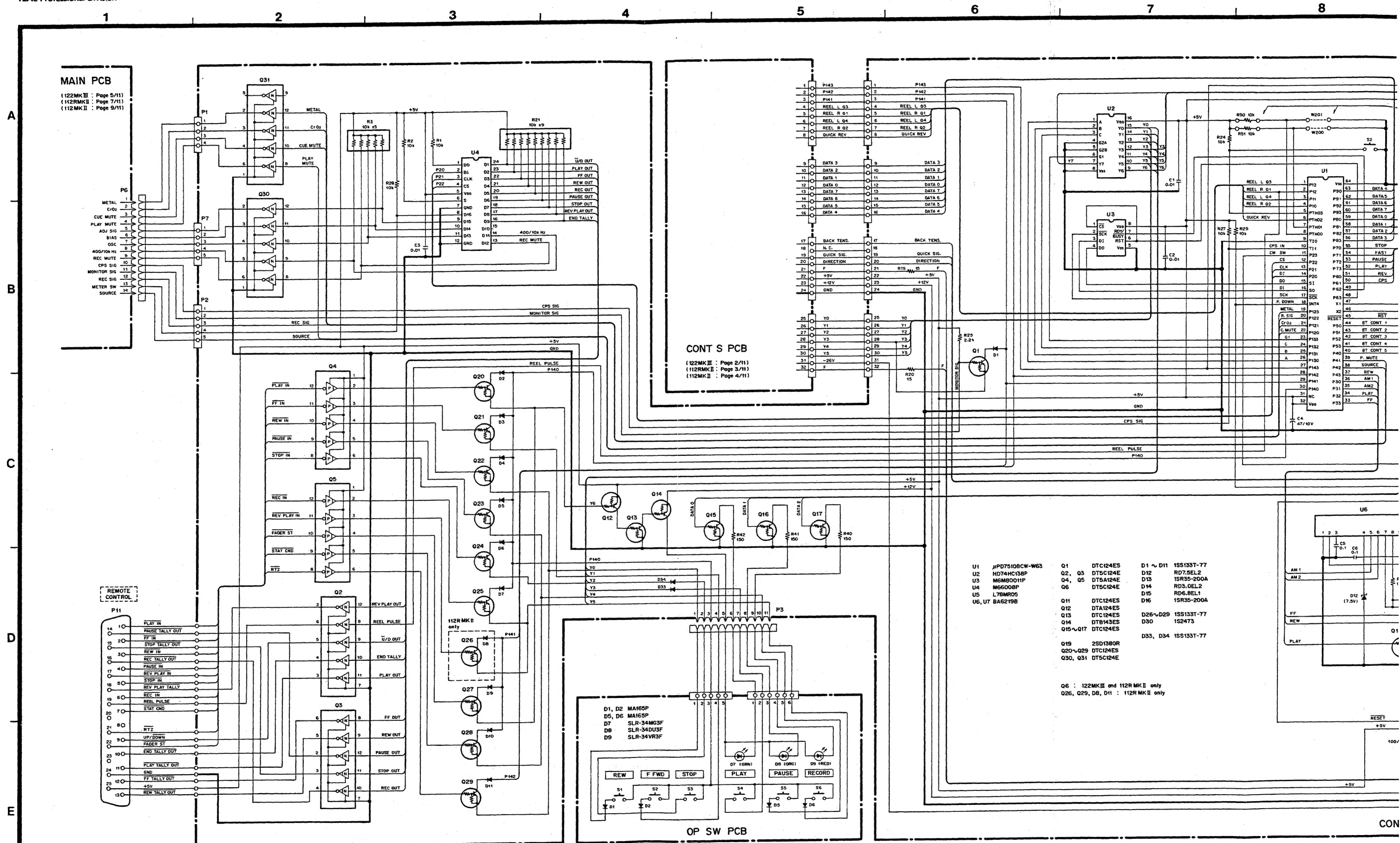


- U101 NJM4565LD
U105 BU4066B
U109 μ PC1297CA
- Q1, Q2 DTA124ES
Q5 DTA124ES
Q6 DTC124ES
Q12-Q14 DTC124ES
Q15 JCS01
Q16 2SA933SLN
Q17, Q18 JCS01
Q21 DTC124ES
- Q104, Q201 2SC1845E
Q102, Q202 2SC1845E
Q103, Q203 2SC2678B
Q105, Q205 DTC314TS
Q106, Q206 DTC314TS
Q107, Q207 DTC314TS
- D1 1SS133T-77
D101, D201 1SS133T-77

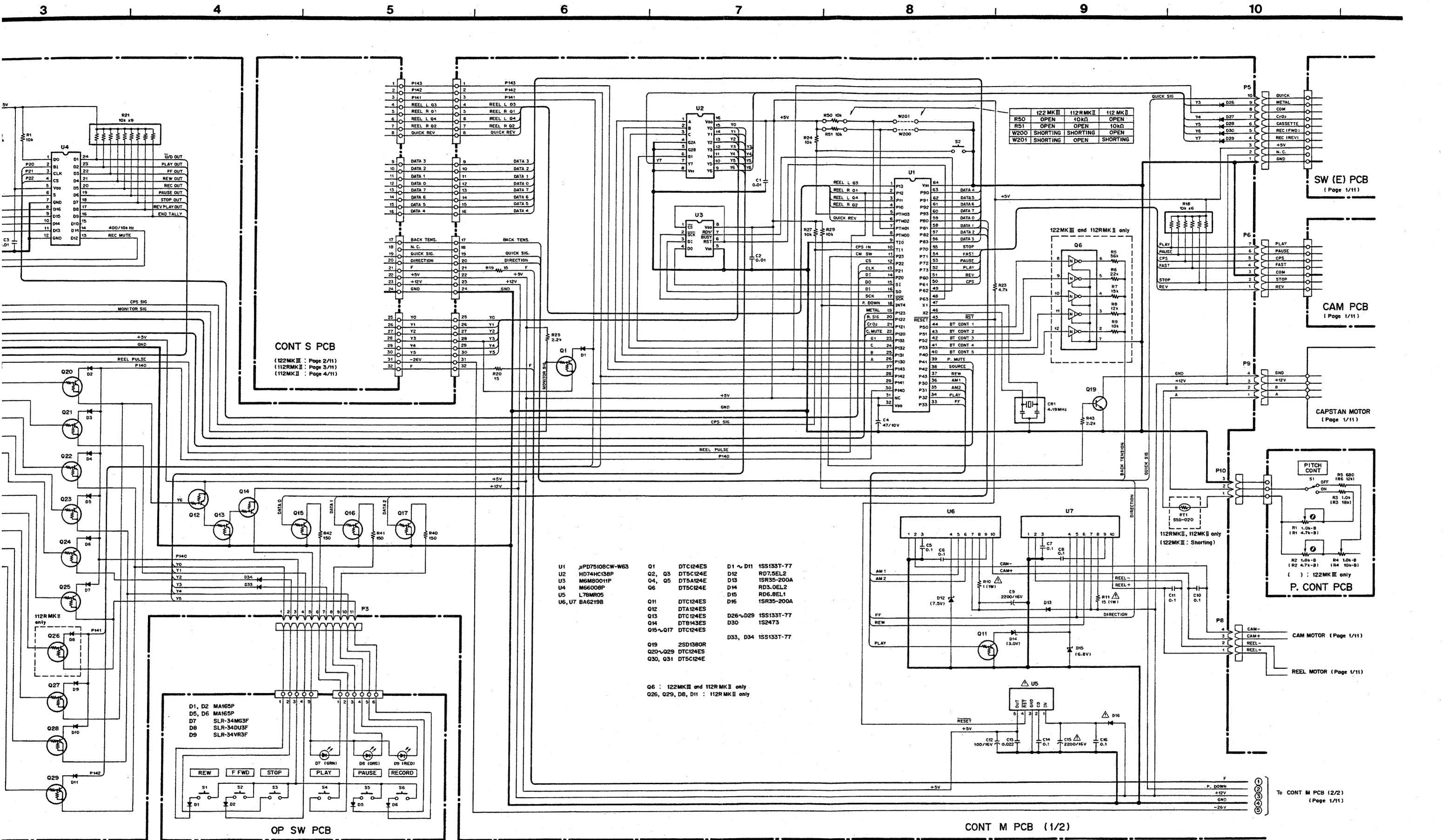
Stereo Cassette Deck 112MKII

TASCAM SCHEMATIC DIAGRAM 122MKIII/112RMKII/112MKII CONTROL SECTION

TEAC Professional Division



122MKII/112MKII CONTROL SECTION



122MKIII/112RMKII/112MKII

122MKⅢ/112RMKⅡ/112MKⅡ

TASCAM TEAC Professional Division

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AV技術相談室 ☎ (0425) 60-7761

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